

**SMALL AREA REMEDIATION WORK AREA-SPECIFIC DESCRIPTION**

**APPENDIX A.3.1**

**PRE-DESIGN INVESTIGATION DATA SUMMARY REPORT**

**PSC METALS VICINITY PROPERTY (DT-8)**

Appendix A.3.1, Revision 1, replaced  
Appendix A.3.1, Revision 0, per  
transmittal letter 845843-SEICPR-175  
dated 8/10/06.

**FUSRAP ST. LOUIS DOWNTOWN SITE**

**ST. LOUIS, MISSOURI**

**TOTAL ENVIRONMENTAL RESTORATION CONTRACT**

**CONTRACT NO. DACW41-98-D-9006**

**TASK ORDER NO. 0011**

**Submitted to:**

**Department of the Army  
U.S. Army Engineer District,  
Kansas City Corps of Engineers  
700 Federal Building  
601 East 12<sup>th</sup> Street  
Kansas City, Missouri 64106**

**Department of the Army  
U.S. Army Engineer District,  
St. Louis Corps of Engineers  
FUSRAP Project Office  
8945 Latty Avenue  
Berkeley, Missouri 63134**

**Submitted by:**



**Shaw Environmental, Inc.  
FUSRAP St. Louis Downtown Site Office  
110 James S. McDonnell Boulevard  
Hazelwood, Missouri 63042**

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**Revision 1**

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## List of Acronyms

| <b>Acronym</b>     | <b>Title</b>                                                             |
|--------------------|--------------------------------------------------------------------------|
| Ac                 | actinium                                                                 |
| AEC                | Atomic Energy Commission                                                 |
| ASTM               | American Society for Testing and Materials                               |
| bgs                | below ground surface                                                     |
| BNI                | Bechtel National, Inc.                                                   |
| COC(s)             | contaminant(s) of concern                                                |
| DOE                | U.S. Department of Energy                                                |
| FSSP               | Final Status Survey Plan                                                 |
| FUSRAP             | Formerly Utilized Sites Remedial Action Program                          |
| HU(s)              | Hydrostratigraphic Unit(s)                                               |
| IT                 | IT Corporation                                                           |
| Mallinckrodt       | Mallinckrodt Inc.                                                        |
| MARSSIM            | Multi-Agency Radiation Survey and Site Investigation Manual              |
| MED                | Manhattan Engineer District                                              |
| msl                | mean sea level                                                           |
| OD                 | outside diameter                                                         |
| Pa                 | protactinium                                                             |
| PARCC              | precision, accuracy, representativeness, completeness, and comparability |
| pCi/g              | picocuries(s) per gram                                                   |
| Ra                 | radium                                                                   |
| RG(s)              | remedial goal(s)                                                         |
| ROD                | Record of Decision                                                       |
| SAG                | Sampling and Analysis Guide                                              |
| SAIC               | Science Applications International Corporation                           |
| Shaw               | Shaw Environmental, Inc. (formerly IT Corporation)                       |
| SLDS               | St. Louis Downtown Site                                                  |
| SOR <sub>net</sub> | sum-of-ratios net                                                        |
| TCLP               | toxicity characteristic leaching procedure                               |
| Th                 | thorium                                                                  |
| U                  | uranium                                                                  |
| USACE              | U.S. Army Corps of Engineers                                             |
| USEPA              | U.S. Environmental Protection Agency                                     |
| USGS               | United States Geological Survey                                          |
| USNRC              | U.S. Nuclear Regulatory Commission                                       |
| VOC                | volatile organic compound                                                |

## 1.0 Introduction

A pre-design investigation at the PSC Metals Vicinity Property (DT-8) was conducted by Shaw Environmental, Inc. (Shaw) for the U.S. Army Corps of Engineers (USACE), St. Louis District, from 1999 through 2005. The pre-design investigation activities were conducted in accordance with the Formerly Utilized Sites Remedial Action Program (FUSRAP). The FUSRAP was developed in 1974 by the Atomic Energy Commission (AEC; now the U.S. Department of Energy [DOE]) to identify and clean up or otherwise control sites where residual radioactive contamination remained from activities carried out under contract to the Manhattan Engineer District (MED) and the AEC during the early years of the nation's atomic energy program (Bechtel National, Inc. [BNI], 1994). Subsequently, Congress transferred responsibility for the FUSRAP to the USACE.

The *Record of Decision for the St. Louis Downtown Site, St. Louis Missouri* (ROD) (USACE, 1998) identified the St. Louis Downtown Site (SLDS) as requiring remediation of chemical and radiological contamination. Radiological contamination was defined by the ROD as the presence of radiological contaminants of concern (COCs) in soil at concentrations exceeding the ROD criteria. In the context of this pre-design investigation report, radiological contamination is defined as the presence of COCs in an individual soil sample or group of samples at net concentrations (above the background concentration) that exceed ROD remediation criteria.

However, the presence of COCs at concentrations that exceed ROD remediation criteria in an individual sample or group of samples may not exceed ROD remedial goals (RGs). The determination of whether residual radiological activity is less than RGs is beyond the scope of this report and will be made based on the results of additional sampling performed in accordance with the *Final Status Survey Plan for Accessible Soil Within Mallinckrodt Property and the Vicinity Properties, Excluding Plants 1, 2 and the City Property at the St. Louis Downtown Site, St. Louis, Missouri* (FSSP) (USACE, 2002). If RGs are exceeded, the area will be excavated.

Note that the background concentration used in this pre-design investigation report is defined by the arithmetic mean of the distribution of background measurements that have been collected at the SLDS. As identified by the ROD, the radiological COCs at the SLDS are uranium-238 (U-238) and its daughters, especially thorium-230 (Th-230) and radium-226 (Ra-226); U-235 and its decay products, including protactinium-231 (Pa-231) and actinium-227 (Ac-227); and thorium-232 (Th-232) and its progeny.

The SLDS consists of the Mallinckrodt Inc. (Mallinckrodt) plant (a chemical manufacturer) and surrounding vicinity properties, one of which is the DT-8 (USACE, 1998). During characterization and remedial investigation activities conducted by BNI at the SLDS between 1986 and 1990, radiological contamination was identified at a number of soil sample locations on the McKinley Iron property (later identified as PSC Metals property), and that property was included as a vicinity property identified in the ROD (USACE, 1998) requiring remediation. In this report, the original McKinley Iron/PSC Metals property tract will be referred to as the "South Tract." Subsequent to the BNI investigations, a better understanding of the property boundaries, contaminant distribution, and changes to the property ownership over the years has been obtained. The USACE updated the DT-8 vicinity property descriptions in 2002 to include other property holdings or operations of PSC Metals in the immediate area of the original South Tract property and the Mallinckrodt Plant.

As currently defined by the USACE for the purpose of the FUSRAP SLDS project, the DT-8 is composed of seven separate land tracts as illustrated on Figure 1. Within those general boundaries, there are land tracts not owned by PSC Metals that are not considered part of the DT-8. Several small areas of contamination located on surrounding properties that are contiguous to contamination associated with the PSC Metals property are addressed by this report.

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In order to prepare for the remedial design and remediation of the DT-8, the USACE authorized a pre-design investigation be conducted at the DT-8. The purpose of the pre-design investigation at DT-8 was to further identify and define the estimated extent of contamination of the land tracts and to characterize the physical conditions of the land tracts for remedial design. The pre-design investigation activities conducted at the DT-8, and the results obtained during these activities, are described in this pre-design investigation report, which supersedes the previous *Pre-Design Investigation Data Summary Report, PSC Metals Vicinity Property (DT-8), FUSRAP St. Louis Downtown Site, St. Louis, Missouri*, Revision 0 (IT Corporation [IT], 2001a) in its entirety. This Revision 1 (this document) incorporates the information contained in the 2001 report as well as the methods, activities, and results of the subsequent investigations. Data and information from the *Remedial Investigation Report for the St. Louis Downtown Site, St. Louis, Missouri* (Remedial Investigation Report) (BNI, 1994); the *Remedial Investigation Addendum for the St. Louis Site, St. Louis, Missouri* (Remedial Investigation Addendum) (Science Applications International Corporation [SAIC], 1995); and the *Radiological, Chemical, and Hydrogeological Characterization Report for the St. Louis Downtown Site in St. Louis, Missouri* (Characterization Report) (BNI, 1990) were also used in this report. The analytical results for selected soil

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samples collected as part of historical sampling or pre-design investigation activities at properties adjacent to the DT-8 were used to develop an understanding of subsurface conditions on surrounding properties and whether similar subsurface conditions may exist on the DT-8. These analytical results were presented in reports issued for those specific properties, are available in the SLDS project files, and have not been included in this report.

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## 2.0 Pre-Design Investigation Activities and Methods

As noted in Section 1.0, the development of the currently recognized DT-8 property boundaries and land tracts to be included in the investigation occurred in several steps based on information available at the time. Similarly, the scope of work for the pre-design investigation was developed in phases.

The initial scope of work was presented in the *Pre-Design Investigation Work Description, Phillip Metals Vicinity Property, FUSRAP St. Louis Downtown Site, St. Louis, Missouri*, Revision 0 (IT, 2000a) (Work Description). That Work Description described the following investigation activities to be conducted at the (now designated) South Tract:

- Performing a gamma radiological walkover survey
- Identifying potential Class 1, 2, and 3 Survey Units
- Completing up to 20 planned delineation borings around previously identified areas of radiological activity exceeding ROD remediation criteria
- Providing 42 potential Class 2 Survey Unit samples and up to 24 planned potential Class 3 Survey Unit samples to document the absence of contamination exceeding ROD remediation criteria in other areas of the South Tract
- Collecting and analyzing one or more composite waste characterization samples

The field work for that initial scope of work was largely completed by October 2000, and a report of the findings and results (*Pre-Design Investigation Data Summary Report, PSC Metals Vicinity Property [DT-8], FUSRAP St. Louis Downtown Site, St. Louis, Missouri*) (IT, 2001a) was developed and issued in May 2001 as Appendix A.3.1 of the *Small Area Remediation Work Area-Specific Description, FUSRAP St. Louis Downtown Site, St. Louis, Missouri* (IT, 2001b). As part of the 1999 Plant 6 East Half pre-design investigation, some samples were collected on the DT-8 property. These sample locations have been included in this report. Note that the *Pre-Design Investigation Data Summary Report* (Revision 0) for DT-8 indicated that samples were collected and analyzed from a total of 19 near-surface borings, 42 potential Class 2 and 23 potential Class 3 borings, and 1 waste characterization sample.

The USACE authorized a historical background review be conducted at the DT-8 to determine if residual contamination may have been inadvertently buried, relocated, or removed through normal property development or modifications over time, subsequent to initial deposition. A number of areas or features of interest that warranted further investigation were identified during the historical background review. In April 2002, the USACE authorized a second phase of

investigation to be conducted at the South Tract to evaluate whether subsurface contamination or targets of interest were present on the DT-8. This phase of investigation included borings, soil sampling, and analysis at seven specific locations and additional radiological surveys with contingent sampling at eight other areas of interest where previously collected radiological data suggested additional investigation was warranted. The scope of work for the second phase of investigation may be found in Field Work Variance 104 to the Work Description (IT, 2000a).

A third phase of investigation was authorized for the DT-8 by the USACE in September 2002 via Field Work Variance 110 to the *Pre-Design Investigation Work Description, Vicinity Properties, St. Louis Downtown Site, St. Louis, Missouri*, Revision 1 (Work Description) (IT, 2001c). In this phase of investigation, the north and east property tracts were added to the property description and investigation, additional gamma radiological walkover surveys were authorized, and up to 35 pre-design investigation borings, along with soil sampling and analytical work, and up to 82 potential Class 2 borings with soil sampling and analytical work were proposed. Contingency borings, samples, and analytical work were also included in the scope of work. Field Work Variance 112 to the Work Description (IT, 2001c) further modified the third phase of the investigation to provide an additional ten sample locations associated with (previous) gamma radiological walkover surveys, seven sample locations associated with a (previous) characterization gamma radiological walkover survey, and two samples associated with building gutter debris. The third phase of investigation was again modified in May 2005 with the addition of six sample locations along with contingency sample locations and delineation sampling for the north and south property tracts to provide further delineation of the radiological conditions and characterization of the subsurface conditions encountered during the earlier sampling efforts (Appendix B.2, *2005 Additional Pre-Design Investigation at the PSC Metals Vicinity Properties, of the Pre-Design Investigation Work Description, FUSRAP St. Louis Downtown Site, St. Louis Missouri* [Shaw, 2004]).

Pre-design investigation activities were conducted under the guidance and direction received from the USACE throughout the investigation. Pre-design investigation methods are summarized in the following subsections. Details of the methods used can be found in the previously referenced Work Descriptions, on boring logs (see Appendix A) and other field documentation, and in analytical data tables.

## **2.1 Historical Information Review Methods**

A review of available historical information sources and documents was performed as part of the pre-design investigation to gain insights as to when land development activities and/or related



physical changes occurred at the DT-8 and surrounding properties. These land development activities/changes included the placement of fill material, earth movement activities that may have altered the topography, and the addition, removal, or modification of man-made structural elements. Historical drainage/erosional features were also identified. The land development activities and the locations of the drainage/erosional features were then compared with the known MED/AEC operational activities or site characteristics and their associated timeframes to identify areas of the DT-8 that may have been affected by MED/AEC operations.

Specific consideration was given to the identification of the historical topographic surface at the DT-8 and surrounding areas at the time of the MED/AEC operations. This historical topographic surface likely consisted of fill material that overlies the alluvial deposits referred to as the "natural, in situ soil horizon." This natural, in situ soil horizon served as a marker horizon because its homogeneity across the SLDS made it easily identifiable during subsurface investigations. The natural, in situ soil horizon also provided a reference horizon that indicated that the subsurface investigation was below the topographic surface that would have been present during and after Mallinckrodt's MED/AEC operational activities. The historical topographic surface was suspected to be present at approximately 420 feet (+/- 5 feet) above mean sea level (msl) at other SLDS locations where radiological contamination has been identified. Therefore, the historical information review included an evaluation of the natural, in situ soil horizon at the DT-8 and the potential for radiological contamination conditions similar to those identified at other SLDS locations (including preferential pathways for contaminant migration) to be present at the DT-8.

Radiological and geological data from the remedial investigation, pre-design investigations at the DT-8 and surrounding vicinity properties, and remediation activities at nearby Mallinckrodt plants and vicinity properties were also utilized to develop insights into the nature and extent of the soil units at the DT-8. The potential for these soil units to contain radiological contamination was then estimated. Historical information sources and documents included the following:

- Historical sampling results, including results for those samples obtained during characterization and remedial investigations activities at the SLDS (BNI, 1990, 1994 and SAIC, 1995)
- Historical analytical results from previous sampling at Mallinckrodt Plant 1 (IT, 1999a), the City of Venice, Illinois Vicinity Property (DT-11) (IT, 2001b [see Appendix A.5.1]), the MSD Liftstation Vicinity Property (DT-15) (USACE, 2001a), and the City Property Vicinity Property (DT-2) (USACE, 1999)
- Sanborn Maps® (The Sanborn Map Company Inc., 1909, 1950, 1989, 1990, 1992, 1993, 1994, and 1995)

- Historical topographic maps (United States Geological Survey [USGS], 1933, 1935, 1937, 1940, 1950, 1954, 1968, and 1993)
- Eighty-six aerial photographs covering approximately 36 dates provided by the USACE, Geospatial Engineering Branch (USACE, 2001b) and other aerial photographs compiled by Shaw throughout the investigation

Additionally, a field reconnaissance was performed as part of the historical information review. Field reconnaissance activities consisted of a visual assessment and documentation of the following:

- Surface features that may affect field operations (e.g., structures, utilities, or debris that may preclude sample collection in a particular area); and
- Topographic characteristics such as evidence of disturbed ground, depressed areas, runoff/erosional areas, etc.

## **2.2 Gamma Walkover Surveys and Sampling Methods**

A gamma radiological walkover survey was conducted by SAIC in accordance with the *Multi-Agency Radiation Survey and Site Investigation Manual* (MARSSIM) (U.S. Nuclear Regulatory Commission [USNRC] et al., 1997) requirements to identify areas of elevated radiological activity within the uppermost layer of soil at the DT-8. The gamma radiological walkover survey was conducted in accessible areas of the DT-8 utilizing a 2-inch by 2-inch (2 x 2) sodium iodide detector. Five soil samples were collected in conjunction with the gamma radiological walkover survey from areas exhibiting an elevated radiological count rate.

Subsequent to the initial pre-design investigation, gamma radiological walkover surveys were conducted to confirm previously identified areas of elevated radioactivity count rates and to better define the boundaries of areas exhibiting elevated radiological count rates. Soil samples were also collected in conjunction with these gamma radiological surveys to identify areas containing radiological COCs. The gamma radiological surveys were conducted in accordance with instructions and specifications provided in the previously described Work Descriptions or at the direction of the USACE.

Soil samples collected and analyzed in conjunction with the gamma radiological surveys were collected in accordance with the Work Descriptions and submitted to the St. Louis FUSRAP Laboratory under chain-of-custody for analyses by gamma spectroscopy for SLDS radiological COCs. Results from the gamma radiological surveys and soil sampling are presented and discussed in Sections 3.0 and 4.0 of this report.

### 2.3 Soil Sampling Methods

In accordance with the authorized Work Descriptions, sampling locations were identified using standard surveying methods, and the locations were then marked with paint, flags, or stakes. Prior to collecting soil samples, all sampling tools were decontaminated in accordance with the *Sampling and Analysis Guide for the St. Louis Sites, St. Louis, Missouri* (SAG) (USACE, 2000). Decontamination residuals were containerized and ultimately disposed in accordance with the *Materials Handling and Transportation Plan, FUSRAP St. Louis Downtown Site, St. Louis, Missouri* (IT, 1999b).

Most pre-design investigation borings were drilled using a Diedrich D-120 or a Central Mine Equipment 55 or 75 drill rig equipped with 4.25-inch or 3.25-inch inside diameter hollow stem augers (see specific boring logs in Appendix A for actual method used for a specific boring). Soil samples for evaluation of radiological activity were collected using a 2-foot-long by 3-inch outside diameter (OD) steel split spoon sampling device. Soil samples for evaluation of geotechnical characteristics were collected using a 2-foot-long by 2-inch OD steel split spoon sampling device. The split spoon was driven in advance of the hollow stem auger using a 140-pound automatic drop hammer activated over a 30-inch drop height (or equivalent). After each 2-foot evaluation length was collected, the augers were advanced 2 feet to the bottom of the previous evaluation length and the procedure repeated until boring/sampling completion.

Where conditions would not allow the use of a drill rig (e.g., due to the presence of overhead power lines, proximity of structures), soil borings/samples were completed using a 0.5-foot-long by 4-inch OD steel hand auger. Extensions for the hand auger shaft allowed for the collection of soil samples to a depth of 6 feet below ground surface (bgs). Soil borings/samples drilled using a hand auger were advanced at 0.5-foot increments with a pre-cleaned or decontaminated steel sample bucket. The sample bucket was carefully lowered to the bottom of the borehole to prevent scraping and dislodging of sidewall material from the borehole. The depth of penetration of the auger was closely monitored to ensure that the retrieved soil sample was representative of the appropriate sample interval.

The soil cores were field screened for radiological activity using a Ludlum Model 2221 (scaler/ratemeter) together with a Ludlum Model 44-10 (2 x 2 sodium iodide detector). During drilling activities, soil was also screened for volatile organic compounds (VOCs) using a photoionization or flame ionization detector. The field geologist identified and lithologically described the soils using American Society for Testing and Materials (ASTM) Method D2488-93, *Standard Practice for Description and Identification of Soils (Visual-Manual*

*Procedure*) (ASTM, 1993). The lithologic information and the screening results were recorded on the soil boring log at the time of boring advancement. If applicable during logging, particular attention was paid to identifying the existence of remnant surface soil horizons, erosional zones, or other historical indicators (e.g., debris zones).

At various locations, a test pit or trench was used (instead of a soil boring) to allow for characterization of the subsurface by direct observation as well as to allow for collection of subsurface samples due to access restrictions or sampling difficulties encountered at the planned sampling location. A backhoe was typically used to excavate the test pit. Test pit activities (e.g., excavating, sampling, stockpiling, and backfilling) were conducted in accordance with authorized Work Description.

Soil samples from the appropriate 0.5-foot interval were collected and processed in accordance with the SAG (USACE, 2000) or a specific Work Description, placed in 1-quart containers with tight-fitting lids, submitted to the St. Louis FUSRAP Laboratory under chain-of-custody, and analyzed by gamma spectroscopy for SLDS COCs. Soil samples collected for archiving were placed in double-bagged plastic bags with sealable openings. The samples were then transported to the on-site storage trailer under chain-of-custody in accordance with SAG procedures. Results from the soil sampling are presented and discussed in Sections 3.0 and 4.0 of this report.

Upon completion of drilling and sampling, each boring was backfilled in accordance with the SAG or as directed by the USACE. Subsequent to backfilling the soil borings or test pits, each location was either civil surveyed or its distance measured from a known point (nearby surveyed feature). Coordinate location data are retained in the project files.

## **2.4 Waste Characterization Sampling and Investigation-Derived Waste**

One five-part composite waste characterization sample (SLD06650) was collected within the DT-8 to evaluate waste acceptance criteria for disposal purposes. A discrete sample (SLD06650-4) was collected for the VOC component portion of the waste characterization sample using the procedure described below. Each of the soil sub-samples collected was screened for VOCs using a photoionization detector in addition to radiological screening. The discrete soil sample for VOC analysis was collected from the interval that exhibited the maximum photoionization reading from the five sub-samples.

The soil-composite sample for waste characterization evaluation was submitted to Severn Trent Services Laboratory for the following analyses: toxicity characteristic leaching procedure (TCLP) pesticides, TCLP herbicides, TCLP metals (eight Resource Conservation and Recovery

Act metals plus copper and zinc), polychlorinated biphenyls, total organic halides, corrosivity, ignitability, reactivity, and the paint-filter test. The discrete sample collected for VOC analysis was submitted for TCLP VOC analysis.

Investigation-derived waste generated during the pre-design investigation activities included personal protective equipment, soil cores or cuttings, disposable sampling equipment, decontamination fluids, and plastic sheeting. This material was placed at the SLDS load-out facility, loaded into railcars, and transported off site to an approved disposal facility.

## **2.5 Interpretive Methods**

Soil samples (SLD-series or HTZ-series samples) were submitted to the St. Louis FUSRAP Laboratory and analyzed for radiological COCs by gamma spectroscopy. The gamma spectroscopy results were used to evaluate radiological conditions and help determine the estimated extent of radiological contamination. Alpha spectroscopy analysis was also performed for Th-230 and Th-232 on a portion of the soil samples. For those samples also analyzed by alpha spectroscopy, those results for Th-230 and Th-232 were used as the input for interpretation of the pre-design investigation results. Samples with PSC-series designations were considered screening level samples and, as such, were not subject to the same level of analysis, reporting, or quality assurance/quality control as samples initially designated for contaminant determination purposes (typically SLD-series and HTZ-series samples). In certain instances, selected PSC-series samples were subsequently selected for reanalysis using the SAG-prescribed methods and reassigned a SLD-series designation. In the event that reanalysis was completed for a PSC-series sample, the reanalyzed results (with the better quality data) were reported and used in this report. In the event that a PSC-series sample was not reanalyzed, the initial screening data were reported and used in this report.

The radiological soil sample results for each sample were imported into a working database to calculate the sum-of-ratios net ( $SOR_{net}$ ) value for each sample. If the detection limit for an analyte exceeded the result, then one-half of the detection limit value was used for calculating the  $SOR_{net}$  value in accordance with U.S. Environmental Protection Agency (USEPA) guidance (USEPA, 2000). The background values were subtracted from the gross radionuclide results prior to calculating the  $SOR_{net}$  value. The equations used to calculate the  $SOR_{net}$  values are as follows:

Samples from 0 to 0.5 feet bgs (the ground surface begins at the topographic surface):

$$SOR_{net} = \frac{\text{Greater of Ra-226 or Th-230}}{5 \text{ pCi/g}} + \frac{\text{Greater of Ra-228 or Th-232}}{5 \text{ pCi/g}} + \frac{U-238}{50 \text{ pCi/g}}$$

Where pCi/g = picocuries per gram

Samples greater than 0.5 feet bgs:

$$SOR_{net} = \frac{\text{Greater of Ra-226 or Th-230}}{15 \text{ pCi/g}} + \frac{\text{Greater of Ra-228 or Th-232}}{15 \text{ pCi/g}} + \frac{U-238}{50 \text{ pCi/g}}$$

After calculation of the  $SOR_{net}$ , the  $SOR_{net}$  and analytical results for each sample were compared to the ROD remediation criteria (USACE, 1998) to determine if radiological contamination was present. A sample with a  $SOR_{net}$  greater than or equal to 1.0 was assumed to be contaminated. If contamination was identified, the available data and information were evaluated further to estimate the horizontal extent of radiological contamination. The term "contamination," as defined in Section 1.0 and used herein, differs from the RG usage in that the RGs are based on the average concentration of SLDS COCs within the entire population of data that are above the site background distribution for a 100-square-meter area.

When radiological contamination was detected within a sample from a particular sample interval (e.g., from 0 to 0.5 feet bgs), it was conservatively assumed for volume and cost estimation purposes that the depth of the contamination at that location extended to the top of the next sampled interval that did not contain radiological COCs. Based on the foregoing evaluation, potential remediation areas and/or contamination contours were identified to aid in estimating the soil volume to be removed to achieve the RGs identified in the ROD. The estimated extent of contamination was then presented in a series of figures. If the area represented by the estimated extent of contamination coincided with historical or geological features of interest identified during the historical review, the outline of the feature(s) of interest was also portrayed on the estimated-extent-of-contamination map. Areas in which one or more samples exhibit an  $SOR_{net}$  exceeding 1.0 but which may not exceed ROD (USACE, 1998) RGs, when evaluated in accordance with the FSSP (USACE, 2002), are marked with shading on the estimated-extent-of-contamination maps as described in Section 4.0 to identify them for further evaluation during the design phase. Since the estimated-extent-of-contamination contours illustrated in this report do not reflect the required excavation contours, the gross excavation contours will be provided in the DT-8 remedial design.

### **3.0 Pre-Design Investigation Results**

Pre-design investigation results include the historical information findings, soil sample analytical results, and geology and hydrogeology information from the DT-8. The boring logs are included in Appendix A.

#### **3.1 Historical Information Findings**

As a result of the historical review, a number of historical, structural, and geological features have been identified within the various DT-8 property tracts (Figures 2-A through D). These features and their association with the DT-8 were evaluated to determine their potential impact to the properties with regard to contaminant existence, migration, or concentration. A summary of the historical information and findings, documentation records for the historical background review, owner/operator interviews, and site reconnaissance is located in the SLDS project files. Discussions were organized to generally present or compare the historical information related to the MED/AEC era (1940s – 1950s). The historical perspectives were used in conjunction with the analytical data and other characterization data to assist with the interpretation of contaminant boundaries.

#### **3.2 Gamma Radiological Walkover Survey Results**

Gamma radiological walkover survey results were compiled from each of the investigations and are presented in Appendix B. As a result of identifying elevated readings during the survey, 86 biased samples designated by the HTZ prefix were collected from 49 locations, and 39 screening samples designated by the PSC or MIP prefix were collected from 23 locations. Forty-one of the 86 HTZ samples and five of 39 PSC or MIP samples showed contamination, with depths of contamination ranging from ground surface at numerous locations to at least 2.0 feet bgs at sample location HTZ66213.

#### **3.3 Pre-Design Investigation Analytical Results**

Eight hundred eight soil samples from 319 sample locations were collected from the seven property tracts composing the DT-8 and analyzed for SLDS radiological COCs. Figures 3-A through D depict the sample locations. Table C-1 in Appendix C lists the analytical results from the samples collected and analyzed from the pre-design investigation conducted at the DT-8. Subsequent discussions in this report will use data rounded to two significant figures. As a result, data discussed within the text may not exactly reflect the data as reported in the tables or in actual laboratory reports. Seventy-one samples (including HTZ, MIP, SLD, and PSC series) exhibited an  $SOR_{net}$  of 1.0 or greater (see Table 3-1). The highest  $SOR_{net}$  value (790) was

identified at sample HTZ69418, collected from 0 to 0.5 feet bgs. HTZ69418 was reported to contain 2,300 pCi/g of Ra-228 and Th-232; 1,700 pCi/g of Th-230; 50 pCi/g of U-238; and 4.0 pCi/g of Ra-226. The deepest estimated extent of contamination (6 feet bgs) was based on elevated radium concentrations noted at sample location SLD04160 (sample SLD04268) at a depth of 4.5 to 5.0 feet bgs. The  $SOR_{net}$  values associated with samples exhibiting an  $SOR_{net}$  of 1.0 or more are shown on Figures 4-A through D and the results are listed on Table 3-1.

Waste characterization analytical methods, parameters, and results are presented in Table 3-2. The complete laboratory analytical report is presented as Appendix D. The locations of the five sub-samples collected for waste characterization are also shown on Figure 3-C.

### **3.4 Geology and Hydrogeology**

The geological setting at the SLDS is characterized from surface to bedrock by a fill layer present over most of the site, and alluvial sediments located beneath the fill (USACE, 1998). The fill, discernable as multiple horizons at some locations, has an average thickness of 13 feet and may contain concrete, brick, glass, coal cinders, slag material, and/or other miscellaneous material. Along the eastern boundary of the SLDS near the Mississippi River, fill as thick as 30 feet or more was placed on top of the original floodplain sediments as the SLDS area was developed during the late 1800s and early 1900s. Fill thickness along the western boundary of the SLDS is generally 10 to 15 feet (USACE, 1998). The alluvial deposits underlying the fill consist of stratified clays, silts, sands, and gravels, and range in thickness from 5 to 30 feet.

Ground water at the SLDS has been identified within three hydrostratigraphic units (HUs): HU-A, HU-B, and HU-C. HU-A comprises the fill material and the upper portion of the underlying alluvial deposits. HU-B, also called the Mississippi Alluvial Aquifer, comprises the lower portions of the alluvial deposits and consists of sands and silty sands. HU-C is located within the limestone bedrock. Ground water in the St. Louis area is generally of poor quality and does not meet drinking water standards without treatment (USACE, 1998).

The seven property tracts composing the DT-8 are sufficiently large to cover the range of geological and hydrogeological conditions as previously described for the SLDS project area. At property tracts closer to the western side of the project, fill sequences tend to be thinner and the natural, in situ soil horizon is typically closer to the surface. At property tracts closer to the eastern side of the project area, fill sequences are thicker and the natural, in situ soil horizon is much deeper. Topographic relief across the DT-8 tracts can be variable depending upon the fill sequences and urbanization of the area. In the 1930s, topographic relief in the western portions of the DT-8 (North Tract 1) consisted of a gentle slope (0.008 feet per foot) traversing the river



embankment and entering the floodplain (which was essentially flat at 420 feet above msl). All of the other property tracts were situated within a depression (410 – 420 feet above msl) located within the floodplain. North Tract 3, North Tract 4, South Tract, and the eastern one-half of North Tract 2 were located on the slopes of the depression with slopes averaging 0.16 feet per foot. The western one-half of North Tract 2 appears to be well situated within the base of the depression (at approximately 410 feet above msl). The DT-8 pre-design investigation was targeted primarily within HU-A. When encountered, ground water in the upper fill layers of that unit tended to be isolated and perched. The primary ground water was typically encountered within the upper several feet of the natural, in situ soil layer. Specific information pertaining to the geology and hydrogeology of the various tracts can be obtained from the boring logs (see Appendix A).

### **3.5 Quality Assurance/Quality Control**

Throughout the pre-design investigation conducted at the DT-8, various quality assurance and quality control methods were used to develop an understanding of the quality and usefulness of the investigative methods used, data obtained, and interpretations made. A precision, accuracy, representativeness, completeness, and comparability (PARCC) parameter analyses was performed for the laboratory analytical data by the SAIC Data Management Group. In general summary, the laboratory data were determined to be within control limits and useable for their intended purpose with respect to precision, accuracy, and representativeness. The percent completeness for the sampling effort was reported at 99.9 percent. It was also reported that the current and historical information are sufficiently comparable to allow a reasonable determination of the nature and extent of the radiological contamination. The complete PARCC parameter report is provided in Appendix E.

On many of the land tracts, new fill units or replacement fill units appeared to have been placed within the designated estimated contaminated area or surrounding areas. As a result, the contaminated layer may have been covered, removed, or replaced. Some analytical data from the recent fill units suggested that they were at or below background radioactivity levels. Other sample data from these units suggested that while they were elevated above background radioactivity levels, radioactivity levels were not sufficiently high to be considered contaminated. Thus, some fluctuation in the estimated extent of contamination boundaries should be expected.

## 4.0 Evaluation of Pre-Design Investigation Results

In this section, the analytical results for each land tract associated with the DT-8 property are evaluated in conjunction with the relevant geological and historical data and the gamma radiological walkover survey data. Sample locations with  $SOR_{net}$  values equal to or greater than 1.0, and the estimated horizontal and vertical extent of contamination, are highlighted on Figures 4-A through D. Table 3-1 lists sample data with  $SOR_{net}$  values greater than or equal to 1.0, and the gamma radiological walkover survey results are provided in Appendix B.

### 4.1 Property Conditions – North Tract 1

Five areas of radiological contamination (labeled 1 through 5 on Figure 4-A) were identified on the North Tract 1 at the DT-8. The locations of the radiologically contaminated areas and their associated depths of radiological contamination are identified on Figure 4-A. Table C-1 lists the analytical results, and Table 3-1 lists the analytical results resulting in  $SOR_{net}$  values equal to or greater than 1.0.

Other significant property conditions identified through the historical background review or encountered during the field investigation activities and associated with North Tract 1 include the following:

- Elevated gamma radiological walkover survey results indicated potential contamination associated with soils surrounding the building located in the south central portion of the property. Two samples (SLD76942 and SLD76943) were taken of debris lodged in a rain gutter located along the top of the north wall of the south central building surrounding Area 3 to evaluate whether the elevated gamma radiological walkover survey results were caused by precipitation runoff from the building. Both samples were collected from the same location approximately 2 feet east of the northwest corner of the building. One sample was collected from approximately 0.3 feet below the top of the gutter while the second sample was collected from approximately 0.6 feet below the top of the gutter. Both samples contained  $SOR_{net}$  values below 1.0 (0.9 and 0.7 respectively); however, both contained radioactivity above background levels. The scope of work included plans to collect another set of samples from the gutter located on the northern wall, closer to the eastern side of the building; however, prior to attempting to collect those samples, the gutter fell away from the building and samples could not be recovered.
- During the pre-design investigation, utility locating was performed to clear sample locations for intrusive subsurface work. A number of underground utilities were identified (e.g., gas lines) approaching or entering the North Tract 1 property along the western side of the property and situated to connect to the vacant buildings remaining on the property. Overhead utilities were noted entering the western side

of the property and also along the northern side of the property across Bremen Street. Any further work considered in this area should avoid damaging the utilities. As on other SLDS properties, buried utility conduits can serve as preferential pathways.

- During the pre-design investigation, the building foundations, associated utilities, or other building features were not identified, explored, or mapped. However, these features should be anticipated in the area.

#### 4.1.1 Area 1

Area 1 (see Figure 4-A) is situated along the northern boundary of the North Tract 1 near the northwestern corner of the property. Area 1 covers approximately 10,752 square feet (999 square meters) and extends from approximately 60 feet east of the west property fence to approximately 240 feet east of the west property fence and from the north property fence southward approximately 100 feet. Analytical data indicate that the radiological contamination extends beyond the northern border immediately adjacent to Bremen Street as indicated on Figure 4-A. The estimated radiologically contaminated area was defined based on the gamma radiological walkover survey and analytical data associated with five soil sample locations (HTZ66254, HTZ66219, HTZ66222, HTZ66256, and HTZ66213) in which  $SOR_{net}$  values were reported equal to or greater than 1.0. The estimated extent of contamination area was developed on the basis of additional soil sample locations (SLD72939, SLD87283, SLD72144, SLD72145, SLD72146, HTZ66252, SLD72943, SLD87284, SLD87322, SLD87285, SLD72951, SLD72947, SLD72792, SLD72955, PSC00212, SLD72146, and HTZ66218), three of which (SLD72943, SLD72951, and SLD72947) contained  $SOR_{net}$  values equal to or greater than 1.0. Figure 4-A highlights the sample locations with  $SOR_{net}$  values equal to or greater than 1.0 and lists the  $SOR_{net}$  for each sample. The deepest estimated depth of contamination in Area 1 was at 3.0 feet bgs due to elevated Ra-226 in sample location SLD72939. The primary COC contributing to the radiological contamination in Area 1 was U-238. Radiological data for specific isotopes can be found in Table C-1.

Other significant property conditions identified through the historical background review or encountered during the field investigation activities and associated with Area 1 include the following:

- A number of utilities located within Bremen Street (north of the property) were identified during the historical background review. Since the extent of contamination has been interpreted to extend north of the property line and potentially into Bremen Street, contamination may have migrated to or along these lines.

- A building foundation (see Figure 2-A) was noted in/near Area 1 approximately 80 feet east of the western fence (eastern foundation wall). If further work is performed in or adjacent to Area 1, this foundation may be encountered. Further, preferential pathways and/or contaminant migration barriers may be associated with this foundation. Historical documents suggest the foundation was approximately 40 feet x 100 feet, oriented with the long side of the building in a north-south direction. The foundation was completely covered with at least 1.0 foot of fill material (mostly limestone gravel). Test pits and borings were used to explore the extent of contamination present in the subsurface, and during these intrusive activities, the north and west foundation walls were encountered. The foundation wall consisted of large blocks of limestone stacked in a wall orientation. Based on observations from test pits, no mortar was noted to have been used to construct the foundation. In several places within the test pits, piping and steel pins were noted within the rock foundation. The building foundation was not completely excavated; thus, other potential features were not identified, but may be present.

#### 4.1.2 Area 2

Area 2 (see Figure 4-A) is situated in the southwest corner of the North Tract 1. Area 2 is approximately coincident with a former rail spur, and extends from the western fence line to approximately 120 feet southeast of the west property fence and then 60 feet farther (due) east of the west property fence. It is approximately 30 feet wide throughout its extent. The former spur extended to a large, rectangular-shaped building situated near the south central part of the property. Subsequent build-out of the building appears to have positioned the spur within the building. The estimated radiologically contaminated area was identified on the basis of radiological, historical, and geological information that identified the feature and three HTZ-series samples (HTZ66217, HTZ66262, and HTZ66259), one SLD-series sample (SLD72157), and one PSC-series sample (PSC0176) that contained  $SOR_{net}$  values equal to or greater than 1.0. Additional samples surrounding Area 2 indicated that elevated radioactivity existed in some areas but was not at sufficient concentration to be considered as radiological contamination.

The extent of radiological contamination in Area 2 was estimated based on gamma radiological walkover survey results, analytical data from soil sampling, and geological and historical information pertaining to property characteristics. Radiological contamination in Area 2 was estimated to extend to approximately 2.0 feet bgs throughout the approximately 6,200-square-foot (576-square-meter) area. The primary COCs contributing to the radiological contamination noted in Area 2 were U-238, Th-230, and Ra-226.

#### **4.1.3 Area 3**

Area 3 (see Figure 4-A) is located in the south central part of the North Tract 1 inside a large, rectangular building with no floor. The currently identified radiologically contaminated area is somewhat uniformly shaped, consisting of an approximate 12-foot-radius area. The estimated radiologically contaminated area was identified during a gamma radiological walkover survey and was confirmed with HTZ70904, which had an  $SOR_{net}$  of 3.9 reported from 0 to 0.5 feet bgs. Contamination was also reported to a depth of 1.5 feet bgs ( $SOR_{net}$  of 1.0) at HTZ70904 and vertical delineation was not achieved; however, the concentration was so reduced in the second sampling interval that the contamination is not expected to extend to a significantly greater depth. One other sample location (SLD72162) was located within the general area. No samples with  $SOR_{net}$  values equal to or greater than 1.0 were reported from sample location SLD72162. The primary COC contributing to the radiological contamination in Area 3 was U-238; however, significantly high levels of Th-230 and Ra-226 were also noted in samples from that location.

Vertical delineation was not achieved at sample location HTZ70904 because no samples were collected at a depth greater than 1.5 feet bgs. However, vertical delineation of Area 3 was achieved using sample location SLD72162, located adjacent to HTZ70904, that yielded  $SOR_{net}$  values of less than 1.0 at depths greater than 1.5 feet bgs. Therefore, the extent of contamination in Area 3 was vertically and horizontally delineated adequately using the gamma radiological walkover survey data and available soil analytical results. Area 3 covers approximately 600 square feet (56 square meters). Radiological contamination was estimated to extend to at least 0.5 feet bgs throughout Area 3.

#### **4.1.4 Areas 4 and 5**

Area 4 (see Figure 4-A) is located in the southeast part of the North Tract 1 inside a large, rectangular building with a dirt floor, and Area 5 is located on the north side of this same building. Both locations appear to be isolated small areas. Radiological contamination was estimated to a shallow depth of 0.5 feet bgs in both areas. Areas 4 and 5 cover approximately 195 square feet (18 square meters) each.

#### **4.2 Property Conditions – North Tract 2**

One area of radiological contamination (Area 6) was identified on the North Tract 2 at the DT-8; other samples within North Tract 2 exhibited elevated levels of radioactivity, but not at contaminant levels. The location of the estimated contaminated area and its associated depth of radiological contamination are identified on Figure 4-B.

#### 4.2.1 Area 6

Area 6 (see Figure 4-B) is situated in the west central portion of the North Tract 2. Area 6 extends approximately 100 feet in a northwest-southeast orientation and 50 feet in a northeast-southwest orientation. The identified estimated radiologically contaminated area is irregular in shape and appears to coincide with a former drainage swale or low-lying topographic area (see Figure 2-B). The estimated radiologically contaminated area was identified from gamma radiological walkover survey data and four soil samples (HTZ69453, HTZ69451, HTZ69452, and SLD72213) that contained  $SOR_{net}$  values equal to or greater than 1.0. Vertical delineation of the HTZ sample points was not obtained. Additional samples (SLD72210, SLD72211, SLD72975, SLD72212, SLD72979, SLD72983, SLD72397, SLD72399, SLD72400, SLD72398, SLD72987, and SLD72806) surrounding and within Area 6 were used to assist with identifying the extent of contamination. Radiological contamination in Area 6 was estimated to extend to approximately 1.0 foot bgs throughout the approximately 3,700-square-foot (344-square-meter) area and is anticipated to be primarily surficial in nature. The primary COCs contributing to the estimated radiological contamination noted in Area 6 were Ra-226, Th-230, and U-238.

A number of water pipes crossing the North Tract 2 were identified during the historical background review. Since the estimated extent of radiological contamination has been interpreted to extend across at least one of these lines, these utilities may be encountered if additional work is planned for this area, and contamination may have migrated to or along these lines in the past.

#### 4.3 Property Conditions – North Tract 3

Four areas of radiological contamination (designated Areas 7 through 10) were identified on the North Tract 3 at the DT-8. Other areas within the North Tract 3 exhibit elevated levels of radioactivity, but not at contaminant levels. The locations of the radiologically contaminated areas and their associated depths of radiological contamination are identified on Figure 4-C.

Other significant property conditions identified through the historical background review or encountered during the field investigation activities and associated with North Tract 3 include the following:

- Several rail spurs were located within the property from at least the early 1940s. Those spurs continue to exist in approximately the same locations today. Local surface drainage and regional flooding associated with the Mississippi River have been associated with such features in the past. Small areas of elevated radioactivity may reside throughout the rail spur areas.

- Shallow perched ground water should be anticipated in non-continuous permeable fill or soil layers throughout the area. A more consistent ground water bearing unit should be anticipated at the natural, in situ soil unit within HU-A.

#### 4.3.1 Area 7

Area 7 (see Figure 4-C) is situated in the southwest corner of the North Tract 3. Area 7 extends approximately 180 feet in a west-east orientation from the western property line and approximately 25 feet in a north-south orientation from the southern property line. The identified radiologically contaminated area is irregular in shape. The estimated area of radiological contamination was based on the gamma radiological walkover survey data and sample analytical data from HTZ00266, HTZ69432, HTZ69417, and SLD72827 that contained  $SOR_{net}$  values equal to or greater than 1.0. While samples associated with sample location SLD72991 did not exhibit  $SOR_{net}$  values above 1.0, this location was included in the estimated radiological contamination contours because of the elevated Ra-226 levels (11.2 pCi/g) found at 3.1 to 3.6 feet bgs. Activity in samples SLD72999, SLD73003, SLD72427, HTZ69436, SLD72428, HTZ66274, and SLD72430 surrounding and within Area 7 are above background concentrations but are not at sufficient concentration to be considered as radiological contamination.

Radiological contamination was estimated to extend to approximately 0.5 feet bgs throughout the eastern portion of Area 7, but was estimated to extend to approximately 3.5 feet bgs in the western portion of Area 7. The total contaminated area associated with Area 7 was approximately 4,287 square feet (398 square meters). The primary COCs contributing to the radiological contamination noted in Area 7 were Ra-226 and Th-230.

#### 4.3.2 Area 8

Area 8 (see Figure 4-C) is situated along the northern property line in approximately the western central part of the property of the North Tract 3. Area 8 extends approximately 10 feet in diameter. Radiological contamination was estimated to extend to approximately 0.5 feet bgs throughout Area 8 (approximately 600 square feet [56 square meters]). The estimated area of radiologically contaminated soil was based on gamma radiological walkover surveys and on the basis of analytical results from HTZ66271 that contained an  $SOR_{net}$  equal to or greater than 1.0. Analytical results surrounding HTZ66271 contained  $SOR_{net}$  results less than 1.0.

#### 4.3.3 Area 9

Area 9 (see Figure 4-C) is situated in the northeastern portion of the North Tract 3. Area 9 extends approximately 60 feet in a west-east orientation and approximately 25 feet in a north-

south orientation. The estimated radiologically contaminated area is elliptical in shape and is situated between two rail spurs. The estimated area of radiologically contaminated soil was based on gamma radiological walkover surveys and analytical results from HTZ66267 and HTZ00268 that contained an  $SOR_{net}$  equal to or greater than 1.0. Activity in samples SLD73015, SLD73013, SLD06175, SLD72504, SLD73017, SLD72477, and PSC00218 surrounding and within Area 9 is elevated, but not at sufficient concentration to be considered as radiological contamination.

Radiological contamination was estimated to extend to approximately 0.5 feet bgs throughout Area 9 (approximately 1,400 square feet [130 square meters]). The primary COCs contributing to the radiological contamination noted in Area 9 were Th-230, Ra-226, and U-238.

#### **4.3.4 Area 10**

Area 10 (see Figure 4-C) is situated along the south central border of the North Tract 3 in the area of the former Salisbury Street Roadbed. Area 10 extends approximately 50 feet in a north-south orientation and approximately 25 feet in an east-west orientation. The estimated radiologically contaminated area is elliptical in shape and is situated across the North Tract 3 boundary line. The area was identified from gamma radiological walkover surveys and analytical results from HTZ69418 ( $SOR_{net} = 790$ ), HTZ00267 ( $SOR_{net} = 2.0$ ), and HTZ66280 ( $SOR_{net} = 1.0$ ).

Radiological contamination was estimated to extend to approximately 0.5 feet bgs within Area 10 (approximately 1,886 square feet [175 square meters]). The primary COC contributing to the radiological contamination was Th-230; elevated levels of Ra-226 and U-238 were also noted.

#### **4.4 Property Conditions – South Tract**

Four areas of radiological contamination are estimated to be present on the South Tract at the DT-8 and are designated as Areas 11 through 14 on Figure 4-C. Samples collected from other areas throughout the South Tract exhibited concentrations above background levels of radioactivity, but did not result in  $SOR_{net}$  values that exceeded 1.0.

Ground water can be expected in the shallow subsurface at the South Tract. Periodically, spots of perched ground water were noted during sampling (SLD04356, SLD04357, and PSC00138). A fairly consistent ground water zone was noted shortly after encountering the natural, in situ soil unit (approximately 10 feet bgs). This ground water unit may also be related to a former creek channel situated along the southern edge of the property.



#### 4.4.1 Area 11

Area 11 (see Figure 4-C) is located along the southern edge of the South Tract property, extending from Hall Street on the west to Wharf Street (Burlington Northern Santa Fe Railroad) on the east, and from the southern property line northward approximately 75 feet along an irregularly shaped path. It is known that the radiological contamination identified along the southern DT-8 property line extends southward into Mallinckrodt Plant 6 West Half and Plant 6 East Half; however, further discussion pertaining to the Plant 6 properties is not included in this report. The estimated radiologically contaminated area was defined based on gamma radiological walkover surveys and soil sample data including four HTZ-series, 13 SLD-series, 11 BNI-series, and one PSC-series samples that reported  $SOR_{net}$  values equal to or greater than 1.0. Figure 4-C highlights the sample locations with  $SOR_{net}$  values equal to or greater than 1.0 and lists the  $SOR_{net}$  for each associated sample. The analytical data for the samples collected at these locations is provided in Table C-1. The boring logs for the pre-design investigation sample locations are contained in Appendix A.

Area 11 covers approximately 30,684 square feet (2,851 square meters). Radiological contamination was estimated to extend to at least 0.5 feet bgs throughout most of Area 11 and to 6 feet bgs in an area on the east side of Area 11. In some areas, (e.g., SLDS load out area), additional cover material may have been added (or may continue to be added) to the area after the pre-design investigation samples were collected. Other significant property conditions identified on the South Tract through the historical background review or encountered during the field investigation activities include the following:

- Elevated levels (14 pCi/g) of Th-230 were noted at SLD70102 at a depth of 9.3 to 9.8 feet bgs. Additional evaluation of the subsurface at depth was authorized by the USACE in 2005. These samples indicated no significant levels of Th-230 at 7.5 to 8.0 feet bgs at sample location SLD87286, located approximately 38 feet southwest of SLD70102.
- One potential preferential pathway associated with Area 11 was a former rail spur that was located in a historically low-lying area. The rail spur may have served to channel surface water east and west to or from the adjacent railroad tracks; surface water would then be anticipated to flow in a north-south direction along the Norfolk Southern and Burlington Northern Santa Fe railroad tracks.
- A water line exists along the southern property line of the South Tract, just south of the warehouse buildings located in the southwestern corner of the property, extending the distance of the South Tract southern border from Hall Street to Wharf Street. No specific test pits or sampling of the water line for migration assessment purposes were performed during the pre-design investigation; however, preferential pathway assessments are made during remedial construction activities. Other water

lines have been noted crossing the property (The Sanborn Map Company Inc., 1909). These lines do appear to cross the estimated radiological contamination area (if the lines still exist).

#### 4.4.2 Area 12

Area 12 (see Figure 4-C) is situated near the northeast corner of the large building complex situated in the southwest corner of the South Tract. The estimated radiologically contaminated area was defined based on gamma radiological walkover surveys and soil sample data that included three BNI samples (E2400N2000, E2362N1943, and E2394N1944) with  $SOR_{net}$  values equal to or greater than 1.0. Area 12 covers approximately 5,700 square feet (530 square meters). BNI surface sample location MC116 was located in the general area and had an  $SOR_{net}$  of 1.0. Samples were collected from sample location SLD06217 to verify the data from sample location MC116. Data from sample location SLD06217 resulted in an  $SOR_{net}$  of 0.3 and therefore failed to confirm the presence of radiological concentrations in excess of ROD RGs. Figure 4-C highlights the sample locations with  $SOR_{net}$  values equal to or greater than 1.0 and lists the  $SOR_{net}$  for each associated sample. The deepest contamination reported in Area 12 was noted at 2.0 feet bgs (E2394N1944). The sample from this location and depth was collected from a 1-foot interval instead of the typical 6-inch interval.

#### 4.4.3 Area 13

Area 13 (see Figure 4-C) is situated near the central portion of the South Tract. The estimated radiologically contaminated area was identified from results from the gamma radiological walkover survey and from three soil sample locations (HTZ00164, HTZ66299, and PSC00139). The area was bounded on the basis of other soil sample locations (SLD05727, MC117, HTZ66302, SLD70093, SLD06227, SLD05728, SLD06228, SLD06229, HTZ00165, SLD05733, and E2800N1945). The sample locations with  $SOR_{net}$  values equal to or greater than 1.0 and the  $SOR_{net}$  for each sample are provided on Figure 4-C. The deepest contamination reported in Area 13 was noted at 1.0 foot bgs (HTZ66299). Area 13 covers approximately 5,190 square feet (482 square meters). The primary COCs contributing to the radiological contamination in Area 13 were Ra-226 and Th-230. A potential preferential pathway was identified in the form of the rail spur crossing the area. Historical information has suggested that the rail spurs in the area may channel surface water runoff to surrounding areas. Radiological data for specific isotopes can be found in Table C-1.

#### 4.4.4 Area 14

Area 14 (see Figure 4-C) is situated along the northern rail spur within the South Tract. The area of estimated radiological contamination was identified from a potential Class 2 sample

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Small Area Remediation Work Area-Specific Description  
Appendix A.3.1 Pre-Design Investigation Data Summary Report  
PSC Metals Vicinity Property (DT-8)  
St. Louis Downtown Site

(SLD05720) collected in the area and was further delineated using historical and geological information, gamma radiological walkover survey data, and soil sample analytical results collected from sample locations in the area (SLD05723, SLD05717, and MC115). Area 14 covers approximately 900 square feet (84 square meters). Radiological contamination was estimated to extend to at least 0.5 feet bgs throughout Area 14. Historical information suggests that the contamination may extend farther to the east and west parallel to the rail spur feature. The primary COC contributing to the estimated radiological contamination noted at SLD05720 is Th-230. Contamination at sample location SLD05720 was reported from 0 to 0.5 feet bgs.

At sample location SLD69754, petroleum odors and staining were reported from approximately 2.0 to 6.0 feet bgs. This particular sample location did not contain radiological contamination and is located approximately 60 feet east of contaminated sample location SLD05720. Petroleum hydrocarbon-impacted soil might be expected if remedial excavation activities advanced toward the general area of SLD69754.

#### **4.5 Property Conditions – North Tract 4**

No areas of radiological contamination were identified within the top 6 feet bgs of the North Tract 4 at the DT-8 (see Figure 4-C). Several sample locations were found to exhibit elevated levels of radioactivity, but not at contaminant levels. Soil descriptions of the top 6 feet of material indicated that that material was fill of probable recent origin. Six sample locations (SLD72529, SLD72527, SLD72530, SLD72534, SLD72531, and SLD72532) situated within the North Tract 4 and 16 sample locations from surrounding properties were used to evaluate the tract.

#### **4.6 Property Conditions – East Tracts**

The East Tracts of the DT-8 consist of two small land tracts (designated as East Tracts 1 and 2 on Figure 4-D) located east of Wharf Street (Burlington Northern Santa Fe Railroad tracks) and south of the McKinley Bridge. Pre-design investigations conducted in and around the East Tracts were limited because previous remediations at several adjacent property tracts had extended into the DT-8 East Tracts properties, and contamination was removed (USACE, 1999). One area of radiological contamination (Area 15) was identified in the East Tract 2.

Data from samples surrounding and within the East Tract 1 indicate that elevated radioactivity existed in some areas but was not at sufficient concentration to be considered as radiological contamination. Field observation and analytical results indicate that the property and surrounding areas were likely excavated and filled recently. Analytical results from the upper

0.5 feet of soil throughout the property suggest that residual contamination is not present at that depth.

#### **4.6.1 Area 15**

Area 15 is located in East Tract 2 (Figure 4-D), which is situated east of the Burlington Northern Santa Fe Railroad, west of the Mississippi River, and north of Destrehan Street. The property covers approximately 13,800 square feet (1,282 square meters). Historical records indicated that previous remediation at adjacent properties extended into the East Tract 2 and shallow contamination was removed to a depth of approximately 6.0 feet bgs in the northern part of the land tract and to a depth of approximately 1.0 foot bgs in the southern part of the land tract (USACE, 1999). A sample collected from within the East Tract 2 during the pre-design investigation (post-remediation) from sample location SLD70486 indicated no contamination present at 0 to 0.5 feet bgs; however, contamination was noted from 0.5 to 1.0 foot bgs. Ra-226 was the primary contributor to the elevated  $SOR_{net}$ . Subsequent evaluation of this location via test pit methods indicated no contamination present at 1.2 to 1.5, 2.7 to 3.0, and 5.0 to 5.3 feet bgs. Note that 0.3-foot sample intervals were used here instead of the typical 0.5-foot interval. Contamination appears to be present from 0.5 to 1.2 feet bgs at SLD70486. Vertical delineation was achieved at sample location SLD70486. Sample location SLD76911 was a test pit sample location consisting of four samples (SLD76911, SLD76912, SLD76913, and SLD76914). Analytical results from this location indicated no contamination present from 0.2 to 0.5 feet bgs (clean fill from previous remediation), contamination present at 0.7 to 1.0 foot bgs (Ra-226 primary contributor to elevated  $SOR_{net}$ ), and no contamination present at 2.5 to 2.8 feet bgs and 5.2 to 5.5 feet bgs. Note that 0.3-foot sample intervals were used instead of the typical 0.5-foot interval. Contamination should be anticipated at 0.5 to 2.5 feet bgs throughout the estimated extent of contamination indicated in Area 15. Sample location SLD76918 was a test pit location at which four samples (SLD76918, SLD76919, SLD76920, and SLD76921) were collected. Analytical results from this location indicated no  $SOR_{net}$  values equal to or greater than 1.0.

The extent of contamination in Area 15 was vertically and horizontally estimated using the available soil sample results. Radiological contamination was estimated to extend to approximately 2.5 feet bgs throughout the designated contaminated area identified on the East Tract 2 (approximately 879 square feet [82 square meters]).

## **5.0 Summary and Conclusions**

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The DT-8 consists of seven tracts of property owned by PSC Metals Company and situated in close proximity to the former MED/AEC operations conducted at the Mallinckrodt Chemical Corporation. One property tract, designated the South Tract (for the purposes of this report), was listed in the ROD as one of the original vicinity properties associated with the SLDS and cited by the ROD as requiring remediation from MED/AEC residual contamination. The USACE added the other PSC Metals property tracts to the SLDS project when it was determined that residual MED/AEC contamination may also have migrated to or been left on those properties. The USACE authorized a pre-design investigation be conducted at the DT-8 property tracts to determine the extent of radiological contamination identified during the remedial investigation, to identify and assess geological and historical deposits that may contain radiological contamination, and to more fully characterize the property tracts to allow remedial design to take place.

The pre-design investigation activities at the DT-8 were conducted between June 2000 and May 2001 (phase I), between May 2002 and January 2003 (phase II), and between September 2002 and June 2005 (phase III). As part of the 1999 Plant 6 East Half pre-design investigation, some samples were also collected on the DT-8 property. These sample locations have been included in this report. The pre-design activities included conducting background review and historical evaluations, conducting gamma radiological walkover surveys, soil sampling and analyses, waste characterization sampling and analyses, conducting site reconnaissance, and providing other ancillary support activities (e.g., surveying, mapping, site characterizations).

Based on the pre-design investigation activities authorized by the USACE, 15 areas of estimated radiological contamination were identified within the DT-8. North Tract 4 and East Tract 1 did not exhibit contamination, whereas the remaining five property tracts did. Contamination was estimated at depths ranging from the surface to 6 feet bgs on the eastern portion of Area 11. Additional sampling is required at seven of the 15 areas of radiological contamination to determine if residual radiological activity is less than ROD (USACE, 1998) RGs. These areas include Areas 4, 5, 8, 9, 12 (partial), 13, and 14. Sampling and analysis will be conducted in accordance with the FSSP (USACE, 2002). If RGs are exceeded, the area will be excavated as described in the Remediation Activity Work Description for this property.

## 6.0 References

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## ***Tables***

**Table 3-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Summary of Radionuclide Contaminants of Concern**  
**Analytical Results with Radiological Contamination**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter   | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|-------------|------------------------------------------|-------|-------------------------|----------------------------------|
| HTZ00157        | HTZ00157                     | 08/07/00        | 0                                  | 0.5                | 0.0                              | Radium-226  | 7.15                                     | 0.34  | 0.10                    | 3.53                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.59                                     | 0.10  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 18.00                                    | 3.82  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.92                                     | 0.48  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 17.41                                    | 2.38  | 6.11                    |                                  |
|                 | HTZ00158                     | 08/07/00        | 2                                  | 2.5                |                                  | Radium-226  | 2.36                                     | 0.14  | 0.08                    | 0.26                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.83                                     | 0.12  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 4.99                                     | 1.37  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 1.52                                     | 0.64  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 3.43                                     | 1.22  | 5.98                    |                                  |
| HTZ00159        | HTZ00159                     | 08/07/00        | 0                                  | 0.5                | 0.0                              | Radium-226  | 3.70                                     | 0.21  | 0.07                    | 1.11                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.94                                     | 0.10  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 6.63                                     | 1.69  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.54                                     | 0.37  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 10.05                                    | 1.26  | 4.77                    |                                  |
|                 | HTZ00160                     | 08/07/00        | 1                                  | 1.5                |                                  | Radium-226  | 22.26                                    | 1.11  | 0.16                    | 1.81                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.85                                     | 0.18  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 24.48                                    | 4.77  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.65                                     | 0.38  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 17.02                                    | 5.09  | 9.16                    |                                  |
| HTZ00164        | HTZ00164                     | 08/16/00        | 0                                  | 0.5                | 0.0                              | Radium-226  | 2.66                                     | 0.14  | 0.03                    | 1.05                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.78                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 7.20                                     | 2.17  | 0.68                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.87                                     | 0.60  | 0.64                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 1.72                                     | 0.42  | 2.14                    |                                  |
| HTZ00266        | HTZ00266                     | 10/11/00        | 0                                  | 0.5                | 0.0                              | Radium-226  | 5.26                                     | 0.29  | 0.09                    | 2.50                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 1.04                                     | 0.13  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 5.62                                     | 16.78 | 27.77                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 1.04                                     | 0.13  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 6.10                                     | 2.69  | 5.17                    |                                  |
| HTZ00267        | HTZ00267                     | 10/11/00        | 0                                  | 0.5                | 0.0                              | Radium-226  | 3.14                                     | 0.18  | 0.06                    | 1.62                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 1.03                                     | 0.12  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | -7.76                                    | 13.16 | 19.84                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 1.03                                     | 0.12  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 2.33                                     | 1.86  | 3.98                    |                                  |
| HTZ00268        | HTZ00268                     | 10/11/00        | 0                                  | 0.5                | 0.0                              | Radium-226  | 3.33                                     | 0.19  | 0.07                    | 1.88                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.78                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | -6.43                                    | 13.10 | 21.15                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.78                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 9.02                                     | 2.32  | 4.14                    |                                  |
| HTZ66213        | HTZ66213                     | 01/04/02        | 0                                  | 0.5                | 0.0                              | Radium-226  | 4.23                                     | 0.16  | 0.11                    | 53.07                            |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 1.53                                     | 0.12  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 95.53                                    | 17.01 | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 2.38                                     | 1.11  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 1706.00                                  | 75.11 | 2.93                    |                                  |
|                 | HTZ66214                     | 01/04/02        | 0.5                                | 1.0                | 0.5                              | Radium-226  | 4.07                                     | 0.17  | 0.14                    | 36.90                            |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 1.85                                     | 0.16  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 103.10                                   | 18.90 | 0.64                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 2.64                                     | 1.24  | 0.34                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 1504.00                                  | 66.99 | 5.45                    |                                  |

**Table 3-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Summary of Radionuclide Contaminants of Concern**  
**Analytical Results with Radiological Contamination**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter   | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|-------------|------------------------------------------|-------|-------------------------|----------------------------------|
| HTZ66213        | HTZ66215                     | 01/04/02        | 1                                 | 1.5                | 1.0                              | Radium-226  | 3.47                                     | 0.13  | 0.07                    | 3.34                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 1.11                                     | 0.09  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 5.98                                     | 1.43  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 1.19                                     | 0.51  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 154.60                                   | 8.16  | 1.21                    |                                  |
|                 | HTZ66216                     | 01/04/02        | 1.5                               | 2.0                | 1.5                              | Radium-226  | 1.88                                     | 0.07  | 0.05                    | 10.53                            |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 0.97                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 23.41                                    | 4.34  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 1.35                                     | 0.55  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 455.50                                   | 20.45 | 1.36                    |                                  |
| HTZ66217        | HTZ66217                     | 01/04/02        | 0                                 | 0.5                | 0.0                              | Radium-226  | 37.53                                    | 1.03  | 0.17                    | 12.99                            |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 0.99                                     | 0.15  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 11.30                                    | 2.46  | 0.45                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 0.60                                     | 0.39  | 0.41                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 302.80                                   | 18.11 | 5.01                    |                                  |
| HTZ66219        | HTZ66219                     | 01/04/02        | 0                                 | 0.5                | 0.0                              | Radium-226  | 2.90                                     | 0.11  | 0.06                    | 11.42                            |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 1.10                                     | 0.08  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 34.53                                    | 6.10  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 1.50                                     | 0.57  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 242.40                                   | 11.56 | 1.39                    |                                  |
|                 | HTZ66220                     | 01/04/02        | 0.5                               | 1.0                | 0.5                              | Radium-226  | 1.79                                     | 0.08  | 0.05                    | 4.11                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 0.97                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 15.26                                    | 2.93  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 0.91                                     | 0.42  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 162.40                                   | 8.11  | 1.27                    |                                  |
|                 | HTZ66221                     | 01/04/02        | 1                                 | 1.5                | 1.0                              | Radium-226  | 1.25                                     | 0.06  | 0.04                    | 1.69                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 0.91                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 3.75                                     | 1.08  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 1.01                                     | 0.48  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 79.92                                    | 4.51  | 0.92                    |                                  |
| HTZ66222        | HTZ66222                     | 01/07/02        | 0                                 | 0.5                | 0.0                              | Radium-226  | 2.15                                     | 0.09  | 0.06                    | 5.70                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 1.05                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 15.59                                    | 3.10  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 0.63                                     | 0.36  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 148.90                                   | 7.82  | 2.28                    |                                  |
|                 | HTZ66223                     | 01/07/02        | 0.5                               | 1.0                | 0.5                              | Radium-226  | 2.11                                     | 0.09  | 0.05                    | 2.34                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 1.22                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 4.51                                     | 1.22  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 1.50                                     | 0.60  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 108.60                                   | 6.17  | 1.91                    |                                  |
|                 | HTZ66224                     | 01/07/02        | 1                                 | 1.5                | 1.0                              | Radium-226  | 0.79                                     | 0.05  | 0.05                    | 1.00                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 0.73                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 2.30                                     | 0.76  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 0.65                                     | 0.36  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 50.10                                    | 3.44  | 1.62                    |                                  |
| HTZ66254        | HTZ66254                     | 01/22/02        | 0                                 | 0.5                | 0.0                              | Radium-226  | 3.14                                     | 0.13  | 0.09                    | 21.10                            |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 0.95                                     | 0.10  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | -123.40                                  | 35.49 | 54.92                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 0.95                                     | 0.10  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 801.00                                   | 36.39 | 3.76                    |                                  |

**Table 3-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Summary of Radionuclide Contaminants of Concern**  
**Analytical Results with Radiological Contamination**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter   | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|-------------|------------------------------------------|-------|-------------------------|----------------------------------|
| HTZ66254        | HTZ66255                     | 01/22/02        | 0.5                               | 1.0                | 1.0                              | Radium-226  | 3.09                                     | 0.13  | 0.10                    | 18.98                            |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 1.35                                     | 0.12  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | -98.39                                   | 37.78 | 59.66                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 1.35                                     | 0.12  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 855.90                                   | 38.86 | 4.00                    |                                  |
| HTZ66256        | HTZ66256                     | 01/22/02        | 0                                 | 0.5                | 0.0                              | Radium-226  | 3.70                                     | 0.14  | 0.07                    | 0.66                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 1.19                                     | 0.11  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 4.06                                     | 1.15  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 1.35                                     | 0.58  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 10.50                                    | 2.28  | 2.29                    |                                  |
|                 | HTZ66257                     | 01/22/02        | 0.5                               | 1.0                | 1.0                              | Radium-226  | 3.79                                     | 0.15  | 0.08                    | 1.12                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 1.24                                     | 0.11  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 12.25                                    | 14.79 | 24.88                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 1.24                                     | 0.11  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 21.34                                    | 3.15  | 2.89                    |                                  |
|                 | HTZ66258                     | 01/22/02        | 1                                 | 1.5                | 1.0                              | Radium-226  | 2.07                                     | 0.09  | 0.07                    | 0.04                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 1.08                                     | 0.09  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 1.77                                     | 0.66  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 1.33                                     | 0.56  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 2.68                                     | 1.75  | 2.07                    |                                  |
| HTZ66259        | HTZ66259                     | 01/22/02        | 0                                 | 0.5                | 0.0                              | Radium-226  | 4.33                                     | 0.17  | 0.10                    | 5.47                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 1.28                                     | 0.13  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | -44.92                                   | 25.47 | 37.84                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 1.28                                     | 0.13  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 101.70                                   | 7.04  | 4.44                    |                                  |
|                 | HTZ66260                     | 01/22/02        | 0.5                               | 1.0                | 0.5                              | Radium-226  | 3.51                                     | 0.16  | 0.11                    | 7.34                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 0.97                                     | 0.13  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | -14.84                                   | 33.18 | 54.05                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 0.97                                     | 0.13  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 284.70                                   | 15.52 | 6.30                    |                                  |
|                 | HTZ66261                     | 01/22/02        | 1                                 | 1.5                | 1.0                              | Radium-226  | 2.35                                     | 0.11  | 0.08                    | 1.74                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 0.96                                     | 0.12  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | -9.56                                    | 16.87 | 27.50                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 0.96                                     | 0.12  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 49.02                                    | 4.43  | 3.21                    |                                  |
| HTZ66262        | HTZ66262                     | 01/22/02        | 0                                 | 0.5                | 0.0                              | Radium-226  | 5.65                                     | 0.21  | 0.12                    | 10.48                            |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 1.25                                     | 0.13  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | -93.76                                   | 36.80 | 53.97                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 1.25                                     | 0.13  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 271.90                                   | 14.49 | 6.37                    |                                  |
|                 | HTZ66263                     | 01/22/02        | 0.5                               | 1.0                | 0.5                              | Radium-226  | 3.11                                     | 0.13  | 0.07                    | 1.46                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 1.03                                     | 0.11  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 10.23                                    | 16.08 | 25.35                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 1.03                                     | 0.11  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 38.43                                    | 3.82  | 2.90                    |                                  |
| HTZ66267        | HTZ66267                     | 01/23/02        | 0                                 | 0.5                | 0.0                              | Radium-226  | 5.42                                     | 0.18  | 0.07                    | 1.13                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 1.02                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 5.41                                     | 1.12  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 1.26                                     | 0.43  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 21.42                                    | 2.22  | 1.58                    |                                  |

Table 3-1  
PSC Metals Vicinity Property (DT-8)  
Summary of Radionuclide Contaminants of Concern  
Analytical Results with Radiological Contamination  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter   | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|-------------|------------------------------------------|-------|-------------------------|----------------------------------|
| HTZ66267        | HTZ66268                     | 01/23/02        | 0.5                                | 1.0                | 0.5                              | Radium-226  | 1.54                                     | 0.08  | 0.06                    | 0.05                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 1.01                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 2.05                                     | 0.57  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.89                                     | 0.35  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 3.22                                     | 1.09  | 1.22                    |                                  |
|                 | HTZ66269                     | 01/23/02        | 1                                  | 1.5                | 1.0                              | Radium-226  | 1.61                                     | 0.08  | 0.06                    | 0.05                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.84                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 2.28                                     | 0.62  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.77                                     | 0.33  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 2.65                                     | 1.12  | 1.22                    |                                  |
|                 | HTZ66270                     | 01/23/02        | 1.5                                | 2.0                | 1.5                              | Radium-226  | 1.42                                     | 0.08  | 0.06                    | 0.06                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.97                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 2.29                                     | 0.63  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.90                                     | 0.36  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 3.18                                     | 1.32  | 1.21                    |                                  |
| HTZ66271        | HTZ66271                     | 01/23/02        | 0                                  | 0.5                | 0.0                              | Radium-226  | 5.60                                     | 0.20  | 0.09                    | 1.15                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 1.03                                     | 0.12  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 6.81                                     | 1.34  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 1.28                                     | 0.44  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 8.56                                     | 2.02  | 1.94                    |                                  |
|                 | HTZ66272                     | 01/23/02        | 0.5                                | 1.0                | 0.5                              | Radium-226  | 3.01                                     | 0.13  | 0.07                    | 0.17                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 1.06                                     | 0.12  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 3.58                                     | 0.83  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 1.21                                     | 0.42  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 4.08                                     | 1.54  | 1.52                    |                                  |
|                 | HTZ66273                     | 01/23/02        | 1                                  | 1.5                | 1.0                              | Radium-226  | 2.27                                     | 0.10  | 0.06                    | 0.03                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.88                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 2.12                                     | 0.61  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.40                                     | 0.24  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 2.53                                     | 1.18  | 1.33                    |                                  |
| HTZ66280        | HTZ66280                     | 01/23/02        | 0                                  | 0.5                | 0.0                              | Radium-226  | 4.64                                     | 0.15  | 0.05                    | 1.11                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 1.10                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 7.00                                     | 1.72  | 0.39                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 1.01                                     | 0.49  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 4.90                                     | 0.89  | 0.63                    |                                  |
|                 | HTZ66281                     | 01/23/02        | 0.5                                | 1.0                | 0.5                              | Radium-226  | 5.29                                     | 0.20  | 0.09                    | 0.30                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 1.15                                     | 0.14  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 5.03                                     | 1.29  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 1.00                                     | 0.47  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 5.46                                     | 1.41  | 1.15                    |                                  |
|                 | HTZ66282                     | 01/23/02        | 1                                  | 1.5                | 1.0                              | Radium-226  | 2.56                                     | 0.09  | 0.04                    | 0.06                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.99                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 2.35                                     | 0.78  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.67                                     | 0.37  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 2.75                                     | 0.44  | 0.52                    |                                  |
| HTZ66299        | HTZ66299                     | 01/29/02        | 0                                  | 0.5                | 0.0                              | Radium-226  | 3.96                                     | 0.12  | 0.03                    | 0.24                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.39                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | -0.12                                    | 2.91  | 4.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.39                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 0.95                                     | 0.44  | 0.40                    |                                  |

**Table 3-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Summary of Radionuclide Contaminants of Concern**  
**Analytical Results with Radiological Contamination**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter   | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error  | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|-------------|------------------------------------------|--------|-------------------------|----------------------------------|
| HTZ66299        | HTZ66300                     | 01/29/02        | 0.5                               | 1.0                | 0.5                              | Radium-226  | 64.09                                    | 1.72   | 0.13                    | 4.09                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 0.45                                     | 0.11   | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 9.47                                     | 10.07  | 15.39                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 0.45                                     | 0.11   | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 1.60                                     | 1.15   | 1.49                    |                                  |
|                 | HTZ66301                     | 01/29/02        | 1                                 | 1.5                | 1.0                              | Radium-226  | 14.85                                    | 0.42   | 0.06                    | 0.83                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 0.55                                     | 0.07   | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | -2.08                                    | 5.59   | 8.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 0.55                                     | 0.07   | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 2.72                                     | 0.80   | 0.78                    |                                  |
| HTZ66305        | HTZ66305                     | 01/29/02        | 0                                 | 0.5                | 0.0                              | Radium-226  | 4.89                                     | 0.17   | 0.07                    | 2.36                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 1.11                                     | 0.10   | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | -1.13                                    | 8.13   | 11.77                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 1.11                                     | 0.10   | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 78.23                                    | 4.85   | 1.17                    |                                  |
|                 | HTZ66306                     | 01/29/02        | 0.5                               | 1.0                | 0.5                              | Radium-226  | 3.12                                     | 0.13   | 0.07                    | 0.26                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 1.16                                     | 0.11   | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 1.33                                     | 5.19   | 8.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 1.16                                     | 0.11   | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 6.47                                     | 1.00   | 0.83                    |                                  |
|                 | HTZ66307                     | 01/29/02        | 1                                 | 1.5                | 1.0                              | Radium-226  | 2.08                                     | 0.08   | 0.05                    | 0.12                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 0.80                                     | 0.08   | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 2.40                                     | 4.08   | 6.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 0.80                                     | 0.08   | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 3.66                                     | 0.76   | 0.59                    |                                  |
| HTZ66322        | HTZ66322                     | 02/07/02        | 0                                 | 0.5                | 0.0                              | Radium-226  | 20.15                                    | 0.55   | 0.06                    | 3.78                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 0.43                                     | 0.06   | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 10.21                                    | 1.96   | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 0.44                                     | 0.30   | 0.39                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 16.73                                    | 1.47   | 0.76                    |                                  |
|                 | HTZ66323                     | 02/07/02        | 0.5                               | 1.0                | 0.5                              | Radium-226  | 22.26                                    | 0.61   | 0.06                    | 1.63                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 0.50                                     | 0.07   | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 11.99                                    | 2.32   | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 0.57                                     | 0.32   | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 18.07                                    | 1.54   | 0.76                    |                                  |
| HTZ69417        | HTZ69417                     | 03/19/02        | 0                                 | 0.5                | 0.0                              | Radium-226  | 501.45                                   | 13.35  | 0.53                    | 99.77                            |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 1.07                                     | 0.29   | 0.54                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 33.71                                    | 26.40  | 41.66                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 1.07                                     | 0.29   | 0.54                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | -0.74                                    | 2.83   | 4.12                    |                                  |
| HTZ69418        | HTZ69418                     | 03/19/02        | 0                                 | 0.5                | 0.0                              | Radium-226  | 4.18                                     | 2.46   | 3.68                    | 793.48                           |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 2252.00                                  | 73.55  | 3.88                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 1713.00                                  | 353.90 | 240.30                  |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 2252.00                                  | 73.55  | 3.88                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 54.36                                    | 16.63  | 23.51                   |                                  |
| HTZ69432        | HTZ69432                     | 03/20/02        | 0                                 | 0.5                | 0.0                              | Radium-226  | 578.70                                   | 15.54  | 1.01                    | 115.75                           |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 2.10                                     | 0.73   | 1.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | -49.73                                   | 167.60 | 271.20                  |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 2.10                                     | 0.73   | 1.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | -5.00                                    | 22.29  | 36.23                   |                                  |

**Table 3-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Summary of Radionuclide Contaminants of Concern**  
**Analytical Results with Radiological Contamination**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter   | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|-------------|------------------------------------------|-------|-------------------------|----------------------------------|
| HTZ69451        | HTZ69451                     | 04/12/02        | 0                                  | 0.5                | 0.0                              | Radium-226  | 50.67                                    | 1.40  | 0.20                    | 11.06                            |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 6.24                                     | 0.29  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | -1.61                                    | 22.96 | 35.30                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 6.24                                     | 0.29  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 22.66                                    | 4.02  | 4.15                    |                                  |
| HTZ69452        | HTZ69452                     | 04/12/02        | 0                                  | 0.5                | 0.0                              | Radium-226  | 54.23                                    | 1.47  | 0.16                    | 12.03                            |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 8.03                                     | 0.31  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 18.59                                    | 21.78 | 26.68                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 8.03                                     | 0.31  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 17.82                                    | 2.73  | 3.18                    |                                  |
| HTZ69453        | HTZ69453                     | 04/12/02        | 0                                  | 0.5                | 0.0                              | Radium-226  | 38.34                                    | 1.05  | 0.13                    | 8.24                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 5.04                                     | 0.21  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 12.35                                    | 14.21 | 22.08                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 5.04                                     | 0.21  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 17.00                                    | 2.61  | 2.58                    |                                  |
| HTZ70904        | HTZ70904                     | 10/28/02        | 0                                  | 0.5                | 0.0                              | Radium-226  | 3.30                                     | 0.13  | 0.08                    | 3.86                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.89                                     | 0.08  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 7.23                                     | 1.58  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.92                                     | 0.43  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 141.50                                   | 7.88  | 3.64                    |                                  |
|                 | HTZ70906                     | 10/28/02        | 1                                  | 1.5                |                                  | Radium-226  | 2.79                                     | 0.11  | 0.06                    | 1.04                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.85                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 4.86                                     | 1.23  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.75                                     | 0.40  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 43.95                                    | 3.42  | 2.26                    |                                  |
| PSC00139        | PSC00139                     | 05/22/02        | 0                                  | 0.5                | 0.0                              | Radium-226  | 4.54                                     | 0.25  | 0.19                    | 1.18                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.90                                     | 0.17  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | -2.24                                    | 9.03  | 14.49                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.90                                     | 0.17  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 7.56                                     | 1.69  | 1.50                    |                                  |
|                 | PSC00140                     | 05/22/02        | 0.5                                | 1.0                |                                  | Radium-226  | 4.39                                     | 0.22  | 0.17                    | 0.90                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 1.07                                     | 0.16  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | -3.71                                    | 9.16  | 14.59                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 1.07                                     | 0.16  | 0.17                    |                                  |
|                 | PSC00141                     | 05/22/02        | 2.9                                | 3.4                |                                  | Uranium-238 | 28.05                                    | 2.80  | 1.44                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226  | 2.85                                     | 0.05  | 0.09                    | 0.16                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.65                                     | 0.03  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 5.40                                     | 1.59  | 7.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.65                                     | 0.03  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 4.07                                     | 0.30  | 0.98                    |                                  |
| PSC00145        | PSC00145                     | 05/22/02        | 0                                  | 0.5                | 0.0                              | Radium-226  | 7.27                                     | 0.29  | 0.18                    | 2.18                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 1.13                                     | 0.14  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | -2.40                                    | 11.03 | 16.19                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 1.13                                     | 0.14  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 47.30                                    | 3.97  | 1.61                    |                                  |
|                 | PSC00146                     | 05/22/02        | 0.5                                | 1.0                |                                  | Radium-226  | 1.88                                     | 0.05  | 0.11                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.86                                     | 0.05  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 0.00                                     | 0.00  | 14.10                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.86                                     | 0.05  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 2.09                                     | 0.30  | 1.19                    |                                  |

**Table 3-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Summary of Radionuclide Contaminants of Concern**  
**Analytical Results with Radiological Contamination**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter   | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|-------------|------------------------------------------|-------|-------------------------|----------------------------------|
| PSC00145        | PSC00147                     | 05/22/02        | 2                                  | 2.5                |                                  | Radium-226  | 1.34                                     | 0.03  | 0.07                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.80                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 0.00                                     | 0.00  | 9.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.80                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 1.79                                     | 0.20  | 0.78                    |                                  |
| PSC00176        | PSC00176                     | 06/25/02        | 0                                  | 0.5                | 0.0                              | Radium-226  | 8.43                                     | 0.28  | 0.11                    | 1.34                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 1.44                                     | 0.12  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 7.74                                     | 7.13  | 8.50                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 1.44                                     | 0.12  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 7.01                                     | 1.17  | 0.81                    |                                  |
| PSC00177        | PSC00177                     | 06/25/02        | 0                                  | 0.5                | 0.0                              | Radium-226  | 4.68                                     | 0.25  | 0.18                    | 1.31                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 1.03                                     | 0.15  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 5.43                                     | 9.37  | 14.36                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 1.03                                     | 0.15  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 13.67                                    | 2.15  | 1.45                    |                                  |
| PSC00205        | PSC00205                     | 07/22/02        | 0                                  | 0.5                | 0.0                              | Radium-226  | 4.02                                     | 0.10  | 0.20                    | 1.22                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.97                                     | 0.07  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 14.12                                    | 3.54  | 15.40                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.97                                     | 0.07  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 4.87                                     | 0.57  | 2.14                    |                                  |
| SLD02670        | SLD02670                     | 08/25/99        | 0                                  | 0.5                | 0.0                              | Radium-226  | 2.76                                     | 0.17  | 0.07                    | 1.26                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.80                                     | 0.12  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 6.28                                     | 1.48  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.95                                     | 0.44  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 21.18                                    | 3.48  | 4.76                    |                                  |
|                 | SLD02747                     | 08/25/99        | 3                                  | 3.5                |                                  | Radium-226  | 2.80                                     | 0.17  | 0.06                    | 0.32                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.96                                     | 0.11  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 6.22                                     | 1.67  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 1.46                                     | 0.66  | 0.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 2.00                                     | 1.82  | 4.35                    |                                  |
|                 | SLD02824                     | 08/25/99        | 5                                  | 5.5                |                                  | Radium-226  | 2.21                                     | 0.14  | 0.07                    | 0.02                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 1.00                                     | 0.12  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 1.96                                     | 0.70  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 1.08                                     | 0.49  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 3.43                                     | 1.94  | 4.60                    |                                  |
| SLD02674        | SLD02674                     | 08/25/99        | 0                                  | 0.5                | 0.0                              | Radium-226  | 2.80                                     | 0.17  | 0.08                    | 2.00                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 1.07                                     | 0.13  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 6.30                                     | 13.70 | 22.92                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 1.07                                     | 0.13  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 5.25                                     | 2.26  | 4.45                    |                                  |
|                 | SLD02751                     | 08/25/99        | 2.5                                | 4.0                |                                  | Radium-226  | 1.21                                     | 0.09  | 0.06                    | 0.48                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.95                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | -1.02                                    | 10.42 | 18.02                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.95                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 2.58                                     | 2.28  | 4.13                    |                                  |
|                 | SLD02828                     | 08/25/99        | 5                                  | 5.5                |                                  | Radium-226  | 0.99                                     | 0.07  | 0.05                    | 0.43                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.94                                     | 0.10  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 7.27                                     | 9.28  | 16.38                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.94                                     | 0.10  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 0.86                                     | 2.13  | 3.80                    |                                  |



**Table 3-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Summary of Radionuclide Contaminants of Concern**  
**Analytical Results with Radiological Contamination**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter   | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|-------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD04160        | SLD04160                     | 11/08/99        | 0.3                                | 0.8                | 0.3                              | Radium-226  | 11.23                                    | 1.36  | 0.19                    | 1.69                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.94                                     | 0.07  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 2.85                                     | 0.93  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.86                                     | 0.45  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 0.04                                     | 0.12  | 0.15                    |                                  |
|                 | SLD04214                     | 11/08/99        | 2.5                                | 3.0                |                                  | Radium-226  | 12.32                                    | 1.51  | 0.25                    | 0.65                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 1.12                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 1.78                                     | 0.66  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.91                                     | 0.45  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 0.00                                     | 0.16  | 0.18                    |                                  |
|                 | SLD04268                     | 11/08/99        | 4.5                                | 5.0                |                                  | Radium-226  | 13.86                                    | 1.66  | 0.19                    | 0.74                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.95                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 1.36                                     | 0.55  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.84                                     | 0.42  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 0.12                                     | 0.15  | 0.17                    |                                  |
| SLD04355        | SLD04355                     | 02/21/00        | 1.6                                | 2.2                | 0.2                              | Radium-226  | 52.52                                    | 0.73  | 0.53                    | 3.81                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.52                                     | 0.07  | 0.54                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 34.74                                    | 15.65 | 72.20                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.52                                     | 0.07  | 0.54                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 26.19                                    | 1.90  | 6.46                    |                                  |
|                 | SLD04535                     | 02/21/00        | 3.5                                | 4.2                |                                  | Radium-226  | 2.09                                     | 0.05  | 0.11                    | 0.43                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.43                                     | 0.04  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 6.54                                     | 3.15  | 14.50                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.43                                     | 0.04  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 5.34                                     | 0.52  | 2.05                    |                                  |
| SLD05708        | SLD05708                     | 10/23/00        | 0                                  | 0.5                | 0.0                              | Radium-226  | 2.88                                     | 0.16  | 0.07                    | 1.35                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.81                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 8.22                                     | 2.10  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.94                                     | 0.52  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 6.00                                     | 1.38  | 4.07                    |                                  |
|                 | SLD05750                     | 10/23/00        | 1.4                                | 2.0                |                                  | Radium-226  | 2.80                                     | 0.15  | 0.07                    | 0.20                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 1.29                                     | 0.13  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 3.76                                     | 1.21  | 0.33                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 1.89                                     | 0.78  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 2.70                                     | 1.16  | 5.40                    |                                  |
| SLD05720        | SLD05720                     | 10/17/00        | 0                                  | 0.5                | 0.0                              | Radium-226  | 1.13                                     | 0.08  | 0.04                    | 1.24                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.36                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 8.01                                     | 2.08  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.70                                     | 0.44  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 2.83                                     | 1.22  | 2.29                    |                                  |
|                 | SLD05762                     | 10/17/00        | 1.6                                | 2.0                |                                  | Radium-226  | 3.83                                     | 0.22  | 0.08                    | 0.25                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.92                                     | 0.12  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 4.51                                     | 1.32  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 1.07                                     | 0.54  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 5.54                                     | 2.36  | 5.04                    |                                  |
| SLD05737        | SLD05737                     | 10/11/00        | 0                                  | 0.5                | 0.0                              | Radium-226  | 3.36                                     | 0.20  | 0.08                    | 1.21                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.82                                     | 0.12  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 4.28                                     | 1.18  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.80                                     | 0.42  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 38.63                                    | 4.89  | 4.76                    |                                  |

**Table 3-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Summary of Radionuclide Contaminants of Concern**  
**Analytical Results with Radiological Contamination**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter   | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|-------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD05737        | SLD05779                     | 10/11/00        | 1.5                                | 2.0                |                                  | Radium-226  | 1.30                                     | 0.09  | 0.06                    | 0.02                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 1.03                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 1.29                                     | 0.55  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 1.18                                     | 0.52  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 1.95                                     | 1.59  | 3.96                    |                                  |
| SLD06213        | SLD06213                     | 10/26/00        | 0                                  | 0.6                | 0.0                              | Radium-226  | 4.35                                     | 0.23  | 0.06                    | 1.82                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.59                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 10.50                                    | 2.57  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.90                                     | 0.51  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 6.83                                     | 0.88  | 3.44                    |                                  |
|                 | SLD06238                     | 10/26/00        | 1.5                                | 2.0                |                                  | Radium-226  | 8.05                                     | 0.41  | 0.08                    | 0.71                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.87                                     | 0.12  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 10.79                                    | 6.47  | 8.92                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.87                                     | 0.12  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 7.64                                     | 1.26  | 5.44                    |                                  |
| SLD06215        | SLD06215                     | 10/26/00        | 0                                  | 0.5                | 0.0                              | Radium-226  | 3.97                                     | 0.21  | 0.05                    | 1.28                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.64                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 8.01                                     | 2.04  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.72                                     | 0.45  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 4.85                                     | 0.66  | 3.29                    |                                  |
|                 | SLD06240                     | 10/26/00        | 1.5                                | 2.0                |                                  | Radium-226  | 17.32                                    | 0.83  | 0.11                    | 1.08                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.77                                     | 0.12  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 11.56                                    | 8.70  | 11.75                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.77                                     | 0.12  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 6.97                                     | 1.34  | 6.77                    |                                  |
| SLD06220        | SLD06220                     | 10/26/00        | 0                                  | 0.5                | 0.0                              | Radium-226  | 8.60                                     | 0.47  | 0.18                    | 1.44                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.69                                     | 0.19  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 5.82                                     | 9.83  | 15.72                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.69                                     | 0.19  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 14.49                                    | 2.31  | 11.42                   |                                  |
|                 | SLD06245                     | 10/26/00        | 1.4                                | 2.0                |                                  | Radium-226  | 3.94                                     | 0.21  | 0.06                    | 0.22                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 1.05                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | -2.68                                    | 4.47  | 6.87                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 1.05                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 7.11                                     | 1.01  | 3.87                    |                                  |
| SLD06226        | SLD06226                     | 10/19/00        | 0                                  | 0.5                | 0.0                              | Radium-226  | 3.34                                     | 0.19  | 0.09                    | 1.72                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.79                                     | 0.12  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 0.15                                     | 10.11 | 16.94                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.79                                     | 0.12  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 22.14                                    | 2.63  | 4.74                    |                                  |
|                 | SLD06251                     | 10/19/00        | 1.5                                | 2.0                |                                  | Radium-226  | 1.73                                     | 0.16  | 0.11                    | 0.45                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.80                                     | 0.18  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | -1.76                                    | 9.52  | 15.30                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.80                                     | 0.18  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 1.57                                     | 1.35  | 10.12                   |                                  |
| SLD06230        | SLD06230                     | 10/23/00        | 0                                  | 0.5                | 0.0                              | Radium-226  | 3.30                                     | 0.19  | 0.07                    | 1.01                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 1.09                                     | 0.12  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 1.50                                     | 5.38  | 8.94                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 1.09                                     | 0.12  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 25.20                                    | 2.37  | 4.72                    |                                  |

**Table 3-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Summary of Radionuclide Contaminants of Concern**  
**Analytical Results with Radiological Contamination**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter   | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of Ratios Value <sup>5</sup> |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|-------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD06230        | SLD06255                     | 10/23/00        | 1.5                                | 2.0                |                                  | Radium-226  | 1.87                                     | 0.12  | 0.05                    | 0.06                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 1.04                                     | 0.10  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 4.12                                     | 4.57  | 5.42                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 1.04                                     | 0.10  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 2.33                                     | 0.64  | 3.37                    |                                  |
| SLD06231        | SLD06231                     | 10/10/00        | 0                                  | 0.5                | 0.0                              | Radium-226  | 3.08                                     | 0.18  | 0.07                    | 1.02                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.88                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 4.57                                     | 1.36  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.94                                     | 0.51  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 26.36                                    | 2.43  | 4.16                    |                                  |
|                 | SLD06256                     | 10/10/00        | 1.5                                | 2.0                |                                  | Radium-226  | 2.66                                     | 0.16  | 0.07                    | 0.06                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 1.19                                     | 0.13  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 2.36                                     | 0.84  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 1.23                                     | 0.57  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 2.53                                     | 0.78  | 4.51                    |                                  |
| SLD70096        | SLD70096                     | 05/08/02        | 0                                  | 0.5                | 0.0                              | Radium-226  | 2.89                                     | 0.16  | 0.14                    | 1.55                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.53                                     | 0.10  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | -1.31                                    | 7.61  | 12.21                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.53                                     | 0.10  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 37.28                                    | 3.20  | 1.26                    |                                  |
|                 | SLD70097                     | 05/08/02        | 1.5                                | 2.0                |                                  | Radium-226  | 2.14                                     | 0.09  | 0.06                    | 0.04                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.90                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 3.59                                     | 2.87  | 4.72                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.90                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 1.86                                     | 0.48  | 0.45                    |                                  |
|                 | SLD70098                     | 05/08/02        | 2                                  | 2.5                |                                  | Radium-226  | 1.86                                     | 0.13  | 0.14                    | 0.34                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.61                                     | 0.13  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | -0.06                                    | 6.69  | 10.96                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.61                                     | 0.13  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 6.50                                     | 1.29  | 1.11                    |                                  |
|                 | PSC00130                     | 05/08/02        | 2.5                                | 3.0                |                                  | Radium-226  | 0.73                                     | 0.02  | 0.07                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.66                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 0.00                                     | 0.00  | 9.73                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.66                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 0.79                                     | 0.18  | 0.82                    |                                  |
|                 | PSC00131                     | 05/08/02        | 5                                  | 5.2                |                                  | Radium-226  | 0.59                                     | 0.02  | 0.07                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.66                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 0.00                                     | 0.00  | 9.62                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.66                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 0.66                                     | 0.18  | 0.79                    |                                  |
|                 | SLD70111                     | 05/08/02        | 5.2                                | 5.7                |                                  | Radium-226  | 1.37                                     | 0.07  | 0.06                    | 0.02                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.70                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 0.76                                     | 2.70  | 4.42                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.70                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 1.26                                     | 0.52  | 0.43                    |                                  |
|                 | PSC00132                     | 05/08/02        | 8.5                                | 9.0                |                                  | Radium-226  | 0.64                                     | 0.02  | 0.07                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.61                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 0.00                                     | 0.00  | 9.85                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.61                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 0.94                                     | 0.19  | 0.79                    |                                  |

**Table 3-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Summary of Radionuclide Contaminants of Concern**  
**Analytical Results with Radiological Contamination**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter   | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|-------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD70096        | PSC00133                     | 05/08/02        | 10.5                              | 11.0               |                                  | Radium-226  | 0.59                                     | 0.02  | 0.08                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 0.60                                     | 0.03  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 0.00                                     | 0.00  | 9.86                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 0.60                                     | 0.03  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 0.37                                     | 0.18  | 0.85                    |                                  |
|                 | PSC00134                     | 05/08/02        | 15                                | 15.5               |                                  | Radium-226  | 0.67                                     | 0.02  | 0.07                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 0.61                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 0.00                                     | 0.00  | 9.98                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 0.61                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 0.00                                     | 0.00  | 1.10                    |                                  |
| SLD70102        | SLD70102                     | 05/13/02        | 0                                 | 0.5                | 0.0                              | Radium-226  | 3.16                                     | 0.18  | 0.13                    | 0.65                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 0.62                                     | 0.12  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 1.36                                     | 6.30  | 9.71                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 0.62                                     | 0.12  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 4.63                                     | 1.37  | 0.94                    |                                  |
|                 | SLD70103                     | 05/13/02        | 0.5                               | 1.0                |                                  | Radium-226  | 12.83                                    | 0.47  | 0.19                    | 1.03                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 0.75                                     | 0.17  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 11.22                                    | 15.43 | 25.76                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 0.75                                     | 0.17  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 16.29                                    | 3.05  | 2.78                    |                                  |
|                 | SLD70104                     | 05/13/02        | 2.5                               | 3.0                |                                  | Radium-226  | 4.31                                     | 0.18  | 0.10                    | 0.39                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 1.32                                     | 0.12  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | -0.52                                    | 8.85  | 13.68                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 1.32                                     | 0.12  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 3.41                                     | 1.36  | 1.44                    |                                  |
|                 | SLD70121                     | 05/13/02        | 4                                 | 4.5                |                                  | Radium-226  | 2.07                                     | 0.12  | 0.10                    | 0.28                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 0.99                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 0.11                                     | 7.25  | 12.03                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 0.99                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 1.97                                     | 1.19  | 1.31                    |                                  |
|                 | SLD70122                     | 05/13/02        | 7.2                               | 7.7                |                                  | Radium-226  | 1.62                                     | 0.10  | 0.09                    | 0.22                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 1.03                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 1.98                                     | 6.12  | 10.23                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 1.03                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 0.95                                     | 0.92  | 1.13                    |                                  |
|                 | SLD70123                     | 05/13/02        | 9.3                               | 9.8                |                                  | Radium-226  | 1.57                                     | 0.11  | 0.10                    | 0.78                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 0.98                                     | 0.11  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 13.54                                    | 10.12 | 12.27                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 0.98                                     | 0.11  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 1.28                                     | 0.81  | 1.49                    |                                  |
|                 | SLD70124                     | 05/13/02        | 11.2                              | 11.7               |                                  | Radium-226  | 1.42                                     | 0.10  | 0.10                    | 0.26                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 0.88                                     | 0.10  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | -4.36                                    | 7.52  | 11.44                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 0.88                                     | 0.10  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 1.72                                     | 1.31  | 1.19                    |                                  |
| SLD70486        | SLD70486                     | 09/12/02        | 0                                 | 0.5                | 0.0                              | Radium-226  | 1.65                                     | 0.09  | 0.07                    | 0.61                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 0.92                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | -2.94                                    | 6.10  | 9.90                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 0.92                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 1.76                                     | 0.92  | 1.12                    |                                  |

**Table 3-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Summary of Radionuclide Contaminants of Concern**  
**Analytical Results with Radiological Contamination**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter   | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|-------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD70486        | SLD70487                     | 09/12/02        | 0.5                                | 1.0                |                                  | Radium-226  | 18.69                                    | 0.60  | 0.17                    | 1.12                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 1.05                                     | 0.14  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 4.05                                     | 1.13  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 1.46                                     | 0.60  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 3.06                                     | 1.91  | 2.33                    |                                  |
|                 | SLD76915                     | 05/28/03        | 1.2                                | 1.5                |                                  | Radium-226  | 3.39                                     | 0.13  | 0.08                    | 0.10                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.82                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 3.33                                     | 1.06  | 0.40                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 1.15                                     | 0.57  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 1.83                                     | 1.66  | 2.06                    |                                  |
|                 | SLD76916                     | 05/28/03        | 2.7                                | 3.0                |                                  | Radium-226  | 5.22                                     | 0.18  | 0.10                    | 0.27                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 1.30                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 5.00                                     | 1.29  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 1.00                                     | 0.48  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 3.34                                     | 2.25  | 2.93                    |                                  |
|                 | SLD76917                     | 05/28/03        | 5                                  | 5.3                |                                  | Radium-226  | 1.44                                     | 0.07  | 0.05                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.67                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 1.16                                     | 0.50  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.23                                     | 0.21  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 0.93                                     | 0.36  | 0.37                    |                                  |
| SLD72152        | SLD72152                     | 10/15/02        | 0                                  | 0.5                | 0.0                              | Radium-226  | 3.87                                     | 0.21  | 0.16                    | 1.45                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.92                                     | 0.14  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 4.28                                     | 11.31 | 17.87                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.92                                     | 0.14  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 3.98                                     | 2.03  | 1.99                    |                                  |
|                 | SLD72179                     | 10/15/02        | 1.1                                | 1.6                |                                  | Radium-226  | 2.00                                     | 0.13  | 0.12                    | 0.33                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 1.03                                     | 0.12  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | -10.11                                   | 9.12  | 13.31                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 1.03                                     | 0.12  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 1.84                                     | 1.33  | 1.46                    |                                  |
| SLD72157        | SLD72157                     | 10/21/02        | 0                                  | 0.5                | 0.0                              | Radium-226  | 5.27                                     | 0.19  | 0.09                    | 1.54                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 1.19                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | -1.64                                    | 9.38  | 14.23                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 1.19                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 24.18                                    | 2.16  | 1.52                    |                                  |
|                 | SLD72184                     | 10/21/02        | 0.8                                | 2.0                |                                  | Radium-226  | 3.23                                     | 0.22  | 0.21                    | 0.32                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 1.00                                     | 0.18  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 3.10                                     | 0.99  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 1.24                                     | 0.57  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 13.32                                    | 5.73  | 6.60                    |                                  |
| SLD72213        | SLD72213                     | 01/21/03        | 0                                  | 0.5                | 0.0                              | Radium-226  | 1.08                                     | 0.07  | 0.05                    | 1.08                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.34                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | 5.45                                     | 11.55 | 14.71                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.34                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 1.74                                     | 1.03  | 1.76                    |                                  |
|                 | SLD72404                     | 01/21/03        | 1.5                                | 2.0                |                                  | Radium-226  | 2.68                                     | 0.12  | 0.09                    | 0.55                             |
|                 |                              |                 |                                    |                    |                                  | Radium-228  | 0.85                                     | 0.08  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230 | -6.29                                    | 14.37 | 20.50                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232 | 0.85                                     | 0.08  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238 | 1.92                                     | 1.81  | 2.58                    |                                  |

**Table 3-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Summary of Radionuclide Contaminants of Concern**  
**Analytical Results with Radiological Contamination**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft <sup>1</sup> bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter   | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------------------|--------------------|----------------------------------|-------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72827        | SLD72827                     | 10/10/02        | 0                                              | 0.5                | 0.0                              | Radium-226  | 6.28                                     | 0.29  | 0.18                    | 1.17                             |
|                 |                              |                 |                                                |                    |                                  | Radium-228  | 1.18                                     | 0.16  | 0.19                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-230 | 10.27                                    | 9.37  | 14.58                   |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-232 | 1.18                                     | 0.16  | 0.19                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Uranium-238 | 4.19                                     | 1.79  | 1.34                    |                                  |
|                 | SLD72828                     | 10/10/02        | 1                                              | 1.5                |                                  | Radium-226  | 7.95                                     | 0.33  | 0.19                    | 0.45                             |
|                 |                              |                 |                                                |                    |                                  | Radium-228  | 1.27                                     | 0.16  | 0.18                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-230 | 8.50                                     | 9.39  | 14.37                   |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-232 | 1.27                                     | 0.16  | 0.18                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Uranium-238 | 5.19                                     | 1.64  | 1.37                    |                                  |
|                 | SLD72829                     | 10/10/02        | 3.2                                            | 3.7                |                                  | Radium-226  | 8.70                                     | 0.38  | 0.23                    | 0.63                             |
|                 |                              |                 |                                                |                    |                                  | Radium-228  | 1.38                                     | 0.19  | 0.24                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-230 | 9.24                                     | 2.45  | 0.39                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-232 | 1.23                                     | 0.66  | 0.21                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Uranium-238 | 7.16                                     | 2.82  | 3.09                    |                                  |
|                 | SLD72830                     | 10/10/02        | 5.1                                            | 5.6                |                                  | Radium-226  | 3.54                                     | 0.21  | 0.17                    | 0.17                             |
|                 |                              |                 |                                                |                    |                                  | Radium-228  | 1.51                                     | 0.17  | 0.18                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-230 | 3.42                                     | 1.06  | 0.15                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-232 | 1.93                                     | 0.74  | 0.15                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Uranium-238 | 2.38                                     | 1.99  | 2.22                    |                                  |
|                 | SLD72831                     | 10/10/02        | 16                                             | 16.5               |                                  | Radium-226  | 1.56                                     | 0.09  | 0.09                    | 0.03                             |
|                 |                              |                 |                                                |                    |                                  | Radium-228  | 0.97                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-230 | 1.85                                     | 0.69  | 0.30                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-232 | 1.52                                     | 0.61  | 0.14                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Uranium-238 | 0.83                                     | 0.81  | 1.14                    |                                  |
| SLD72943        | SLD72943                     | 02/06/03        | 0                                              | 0.5                | 0.0                              | Radium-226  | 4.26                                     | 0.16  | 0.08                    | 2.26                             |
|                 |                              |                 |                                                |                    |                                  | Radium-228  | 0.51                                     | 0.07  | 0.09                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-230 | 7.21                                     | 6.92  | 11.79                   |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-232 | 0.51                                     | 0.07  | 0.09                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Uranium-238 | 75.08                                    | 4.81  | 1.15                    |                                  |
|                 | SLD72944                     | 02/06/03        | 0.5                                            | 1.0                |                                  | Radium-226  | 4.44                                     | 0.18  | 0.10                    | 0.59                             |
|                 |                              |                 |                                                |                    |                                  | Radium-228  | 1.10                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-230 | 0.56                                     | 5.89  | 9.62                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-232 | 1.10                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Uranium-238 | 20.79                                    | 1.82  | 0.95                    |                                  |
|                 | SLD72945                     | 02/06/03        | 2.5                                            | 3.0                |                                  | Radium-226  | 2.02                                     | 0.21  | 0.23                    | 0.07                             |
|                 |                              |                 |                                                |                    |                                  | Radium-228  | 1.39                                     | 0.23  | 0.22                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-230 | 2.47                                     | 0.84  | 0.15                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-232 | 1.59                                     | 0.66  | 0.34                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Uranium-238 | 1.59                                     | 1.37  | 1.65                    |                                  |
|                 | SLD72946                     | 02/06/03        | 5                                              | 5.8                |                                  | Radium-226  | 1.46                                     | 0.08  | 0.08                    | 0.09                             |
|                 |                              |                 |                                                |                    |                                  | Radium-228  | 1.19                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-230 | -0.46                                    | 3.96  | 6.08                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-232 | 1.19                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Uranium-238 | 1.43                                     | 0.62  | 0.61                    |                                  |
| SLD72947        | SLD72947                     | 02/11/03        | 0                                              | 0.5                | 0.0                              | Radium-226  | 2.10                                     | 0.10  | 0.07                    | 0.57                             |
|                 |                              |                 |                                                |                    |                                  | Radium-228  | 0.39                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-230 | 2.53                                     | 0.76  | 0.22                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-232 | 0.31                                     | 0.24  | 0.12                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Uranium-238 | 24.22                                    | 1.99  | 0.76                    |                                  |

**Table 3-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Summary of Radionuclide Contaminants of Concern**  
**Analytical Results with Radiological Contamination**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter   | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of Ratios Value <sup>5</sup> |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|-------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72947        | SLD72948                     | 02/11/03        | 1                                 | 1.5                |                                  | Radium-226  | 4.25                                     | 0.22  | 0.17                    | 1.71                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 1.12                                     | 0.15  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 6.37                                     | 9.65  | 15.94                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 1.12                                     | 0.15  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 66.13                                    | 5.17  | 1.53                    |                                  |
|                 | SLD72949                     | 02/11/03        | 3                                 | 3.5                |                                  | Radium-226  | 1.75                                     | 0.16  | 0.18                    | 0.31                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 1.25                                     | 0.18  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 0.20                                     | 7.44  | 12.38                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 1.25                                     | 0.18  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 1.94                                     | 1.48  | 1.23                    |                                  |
|                 | SLD72950                     | 02/11/03        | 5                                 | 5.5                |                                  | Radium-226  | 1.76                                     | 0.16  | 0.17                    | 0.29                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 1.14                                     | 0.18  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | -4.24                                    | 7.58  | 12.21                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 1.14                                     | 0.18  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 1.18                                     | 0.86  | 1.56                    |                                  |
| SLD72951        | SLD72951                     | 02/05/03        | 0                                 | 0.5                | 0.0                              | Radium-226  | 2.66                                     | 0.11  | 0.06                    | 0.16                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 0.36                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 1.99                                     | 3.18  | 4.92                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 0.36                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 4.01                                     | 0.52  | 0.45                    |                                  |
|                 | SLD72952                     | 02/05/03        | 1                                 | 1.5                |                                  | Radium-226  | 2.64                                     | 0.18  | 0.18                    | 1.71                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 1.07                                     | 0.16  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 3.79                                     | 1.17  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 1.18                                     | 0.59  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 80.22                                    | 6.38  | 2.01                    |                                  |
|                 | SLD72953                     | 02/05/03        | 2                                 | 2.5                |                                  | Radium-226  | 3.68                                     | 0.22  | 0.19                    | 0.95                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 1.02                                     | 0.16  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 4.52                                     | 1.24  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 1.34                                     | 0.59  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 39.32                                    | 3.83  | 1.67                    |                                  |
|                 | SLD72954                     | 02/05/03        | 4                                 | 4.5                |                                  | Radium-226  | 2.51                                     | 0.10  | 0.06                    | 0.51                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 0.95                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 2.43                                     | 4.00  | 6.56                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 0.95                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 22.45                                    | 1.85  | 0.65                    |                                  |
| SLD76911        | SLD76911                     | 05/28/03        | 0.2                               | 0.5                |                                  | Radium-226  | 1.44                                     | 0.07  | 0.06                    | 0.04                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 0.87                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 1.87                                     | 0.70  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 1.00                                     | 0.49  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 3.27                                     | 1.32  | 1.92                    |                                  |
|                 | SLD76912                     | 05/28/03        | 0.7                               | 1.0                |                                  | Radium-226  | 38.66                                    | 1.08  | 0.20                    | 2.43                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 1.05                                     | 0.14  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 4.84                                     | 1.38  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 1.11                                     | 0.56  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | -0.32                                    | 3.86  | 6.32                    |                                  |
|                 | SLD76913                     | 05/28/03        | 2.5                               | 2.8                |                                  | Radium-226  | 5.72                                     | 0.27  | 0.19                    | 0.27                             |
|                 |                              |                 |                                   |                    |                                  | Radium-228  | 1.42                                     | 0.19  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230 | 4.35                                     | 1.24  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232 | 1.63                                     | 0.67  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238 | 4.63                                     | 4.64  | 7.10                    |                                  |

**Table 3-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Summary of Radionuclide Contaminants of Concern**  
**Analytical Results with Radiological Contamination**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft <sup>1</sup> bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter   | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------------------|--------------------|----------------------------------|-------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD76911        | SLD76914                     | 05/28/03        | 5.2                                            | 5.5                |                                  | Radium-226  | 1.07                                     | 0.06  | 0.07                    | 0.02                             |
|                 |                              |                 |                                                |                    |                                  | Radium-228  | 0.64                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-230 | 1.27                                     | 0.56  | 0.27                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-232 | 1.32                                     | 0.58  | 0.27                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Uranium-238 | 1.58                                     | 1.34  | 1.88                    |                                  |

<sup>1</sup> ft - feet

<sup>2</sup> bgs - below ground surface

<sup>3</sup> Analytical data includes background values (i.e., concentrations reflect gross radionuclide values)

<sup>4</sup> pCi/g - Picocuries per gram

<sup>5</sup> Prior to calculating the SOR, background values for each radionuclide were subtracted from their respective gross radionuclide values

Background Values:

|               |            |
|---------------|------------|
| Radium-226 -  | 2.78 pCi/g |
| Radium-228 =  | .95 pCi/g  |
| Thorium-230 = | 1.94 pCi/g |
| Thorium-232 = | 1.09 pCi/g |
| Uranium-238 = | 1.44 pCi/g |

If Detection Limit exceeds Result, ½ of Detection Limit was substituted for Result value in the SOR calculation.

*Samples in italics indicate MDA > Result*

Data presented in this Table were used solely for the purpose of delineating, vertically and horizontally, radiological COCs within the surface and subsurface soils.



Table 3-2  
PSC Metals Vicinity Property (DT-8)  
Pre-Design Investigation Waste Characterization Sampling Analytical Results

| Sample Location       | Sample Number | Collection Date | Start Depth (ft bgs) | End Depth (ft bgs) | Parameter               | Result             | Detection Limit | Units  |
|-----------------------|---------------|-----------------|----------------------|--------------------|-------------------------|--------------------|-----------------|--------|
| SLD06650 <sub>1</sub> | SLD06650      | 12/22/2000      | 0                    | 2                  | 1,1-Dichloroethene      | ND                 | 50              | ug/L   |
| SLD06650 <sub>2</sub> | SLD06650      | 12/22/2000      | 0                    | 2                  | 1,2-Dichloroethane      | ND                 | 50              | ug/L   |
| SLD06650 <sub>3</sub> | SLD06650      | 12/22/2000      | 0                    | 2                  | 1,4-Dichlorobenzene     | ND                 | 50              | ug/L   |
| SLD06650 <sub>4</sub> | SLD06650      | 12/22/2000      | 0                    | 0.5                | 2, 4, 5-Trichlorophenol | ND                 | 50              | ug/L   |
| SLD06650 <sub>5</sub> | SLD06650      | 12/22/2000      | 0                    | 2                  | 2, 4, 6-Trichlorophenol | ND                 | 50              | ug/L   |
|                       |               |                 |                      |                    | 2, 4-D                  | ND                 | 40              | ug/L   |
|                       |               |                 |                      |                    | 2, 4-Dinitrotoluene     | ND                 | 50              | ug/L   |
|                       |               |                 |                      |                    | 2,4,5-TP (Silvex)       | ND                 | 10              | ug/L   |
|                       |               |                 |                      |                    | 2,4-Dinitrotoluene      | ND                 | 50              | ug/L   |
|                       |               |                 |                      |                    | 2-Butanone              | ND                 | 200             | ug/L   |
|                       |               |                 |                      |                    | 2-Methylphenol          | ND                 | 50              | ug/L   |
|                       |               |                 |                      |                    | 4-Methylphenol          | ND                 | 50              | ug/L   |
|                       |               |                 |                      |                    | Aroclor-1016            | ND                 | 390             | ug/kg  |
|                       |               |                 |                      |                    | Aroclor-1221            | ND                 | 390             | ug/kg  |
|                       |               |                 |                      |                    | Aroclor-1232            | ND                 | 390             | ug/kg  |
|                       |               |                 |                      |                    | Aroclor-1242            | ND                 | 390             | ug/kg  |
|                       |               |                 |                      |                    | Aroclor-1248            | ND                 | 390             | ug/kg  |
|                       |               |                 |                      |                    | Aroclor-1254            | ND                 | 390             | ug/kg  |
|                       |               |                 |                      |                    | Aroclor-1260            | 2200               | 390             | ug/kg  |
|                       |               |                 |                      |                    | Arsenic                 | ND                 | 750             | ug/L   |
|                       |               |                 |                      |                    | Barium                  | 955                | 500             | ug/L   |
|                       |               |                 |                      |                    | Benzene                 | ND                 | 50              | ug/L   |
|                       |               |                 |                      |                    | Cadmium                 | 273                | 125             | ug/L   |
|                       |               |                 |                      |                    | Carbon Tetrachloride    | ND                 | 50              | ug/L   |
|                       |               |                 |                      |                    | Chlordane               | ND                 | 5               | ug/L   |
|                       |               |                 |                      |                    | Chlorobenzene           | ND                 | 50              | ug/L   |
|                       |               |                 |                      |                    | Chloroform              | ND                 | 50              | ug/L   |
|                       |               |                 |                      |                    | Chromium                | 2.3 <sup>E</sup>   | 250             | ug/L   |
|                       |               |                 |                      |                    | Copper                  | 254 <sup>E,I</sup> | 625             | ug/L   |
|                       |               |                 |                      |                    | Endrin                  | ND                 | 0.5             | ug/L   |
|                       |               |                 |                      |                    | Flashpoint              | >60.0              | 25              | Deg. C |
|                       |               |                 |                      |                    | Gamma-BHC (Lindane)     | ND                 | 0.5             | ug/L   |
|                       |               |                 |                      |                    | Heptachlor Epoxide      | ND                 | 0.5             | ug/L   |
|                       |               |                 |                      |                    | Hexachlorobenzene       | ND                 | 50              | ug/L   |
|                       |               |                 |                      |                    | Hexachlorobutadiene     | ND                 | 50              | ug/L   |

Table 3-2  
PSC Metals Vicinity Property (DT-8)  
Pre-Design Investigation Waste Characterization Sampling Analytical Results

| Sample Location | Sample Number | Collection Date | Start Depth (ft bgs) | End Depth (f. bgs) | Parameter         | Result            | Detection Limit | Units   |
|-----------------|---------------|-----------------|----------------------|--------------------|-------------------|-------------------|-----------------|---------|
|                 |               |                 |                      |                    | Hexachloroethane  | ND                | 50              | ug/L    |
|                 |               |                 |                      |                    | Lead              | 101 <sup>E</sup>  | 250             | ug/L    |
|                 |               |                 |                      |                    | Mercury           | ND <sup>E</sup>   | 1               | ug/L    |
|                 |               |                 |                      |                    | Methoxychlor      | ND                | 1               | ug/L    |
|                 |               |                 |                      |                    | Nitrobenzene      | ND                | 50              | ug/L    |
|                 |               |                 |                      |                    | Paint Filter      | pass              | --              | --      |
|                 |               |                 |                      |                    | Pentachlorophenol | ND                | 250             | ug/L    |
|                 |               |                 |                      |                    | Percent Moisture  | 14.9              | 0.1             | percent |
|                 |               |                 |                      |                    | pH (solid)        | 9.3               | --              | pH unts |
|                 |               |                 |                      |                    | Pyridine          | ND                | 100             | ug/L    |
|                 |               |                 |                      |                    | Reactive Cyanide  | ND                | 0.029           | mg/kg   |
|                 |               |                 |                      |                    | Reactive Sulfide  | ND                | 5.2             | mg/kg   |
|                 |               |                 |                      |                    | Selenium          | 6.5 <sup>E</sup>  | 125             | ug/L    |
|                 |               |                 |                      |                    | Silver            | ND                | 250             | ug/L    |
|                 |               |                 |                      |                    | Tetrachloroethane | ND                | 50              | ug/L    |
|                 |               |                 |                      |                    | Total Cyanide     | 0.36              | 0.29            | mg/kg   |
|                 |               |                 |                      |                    | TOX               | 65.3              | 58.7            | mg/kg   |
|                 |               |                 |                      |                    | Toxaphene         | ND                | 20              | ug/L    |
|                 |               |                 |                      |                    | Trichloroethene   | ND                | 50              | ug/L    |
|                 |               |                 |                      |                    | Vinyl Chloride    | ND                | 100             | ug/L    |
|                 |               |                 |                      |                    | Zinc              | 2960 <sup>I</sup> | 500             | ug/L    |

<sup>E</sup> Estimated result. Result is less than the Detection Limit

<sup>I</sup> Matrix interference

ug/L- micrograms per liter

ug/kg- micrograms per kilogram

mg/kg - milligrams per kilogram

Deg. C - degrees celcius

TOX - total organic halogens

ND-Not detected above laboratory analytical detection limits

Analytical Methods:

TCLP Pesticides- EPA 8080

TCLP Volatiles- EPA 8260A

TCLP Herbicides- EPA 8150

TCLP Metals- EPA 7470/6010

PCB's- EPA 8082

Reactive Cyanide - EPA 7.3.3

Reactive Sulfide - EPA 7.3.4

Total Cyanide - EPA 9010A

TOX - 9020A

Note: A discrete soil sample was collected from sample location SLD06650<sub>4</sub> for the analysis of VOCs. Sample locations SLD06650<sub>1</sub> thru SLD06650<sub>5</sub> represent the five subsamples that make up the single composite sample.

## ***Figures***



| Revisions |                       |         |          |
|-----------|-----------------------|---------|----------|
| Symbol    | Descriptions          | Date    | Approved |
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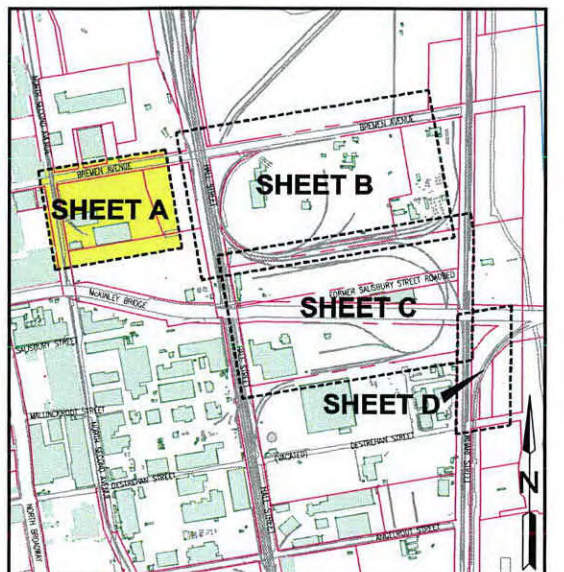
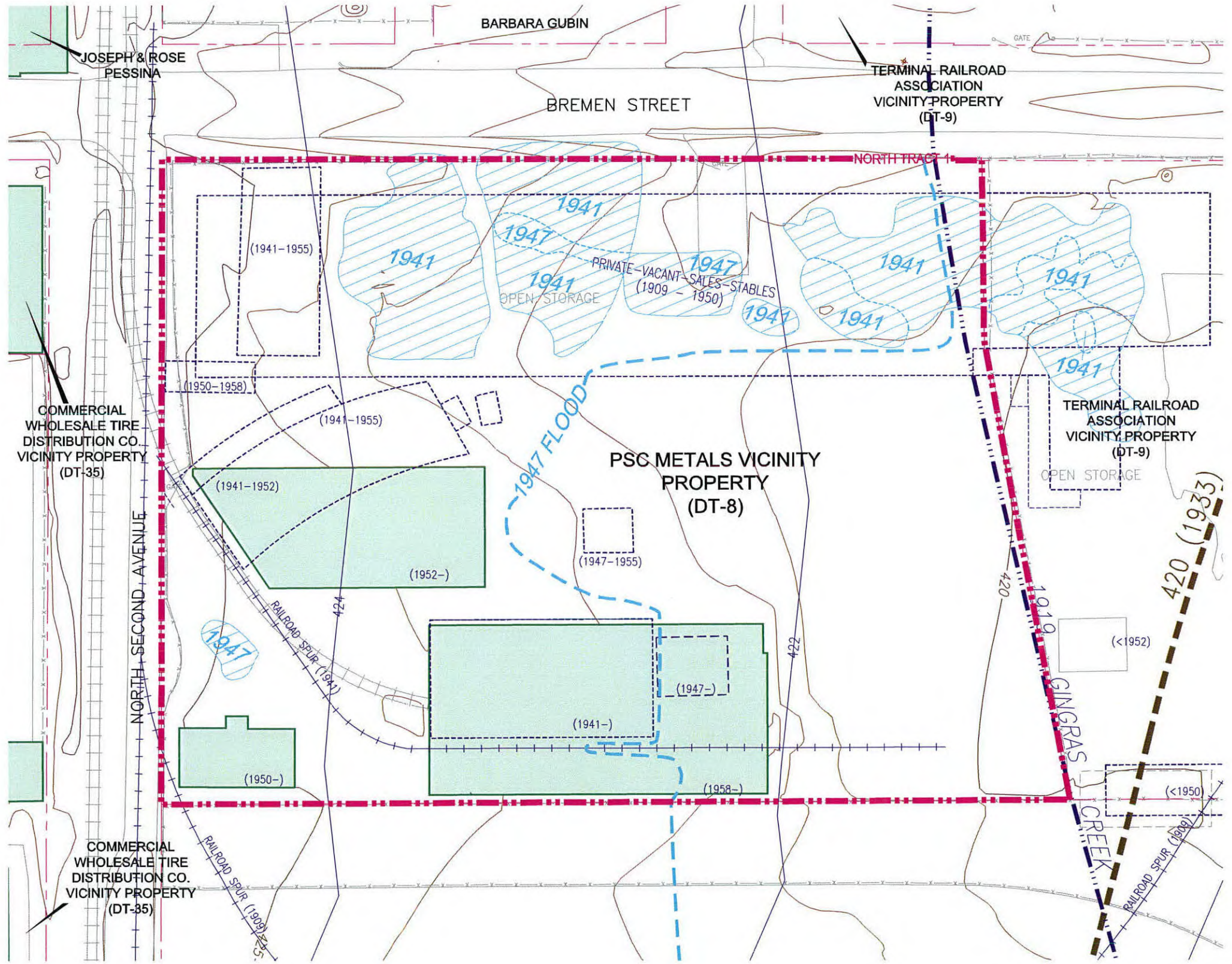


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|                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |                  |                |          |       |         |   |   |               |                  |              |  |  |  |                  |
|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------|----------------|----------|-------|---------|---|---|---------------|------------------|--------------|--|--|--|------------------|
| Designed by:<br><b>B. Eberlin</b><br><br>Drawn by:<br><b>M. Peake</b> | <h2 style="margin: 0;">INDEX TO FIGURES &amp; TRACT DESIGNATIONS (DT-8)</h2> <p style="margin: 5px 0;">PSC METALS VICINITY PROPERTY (DT-8)</p> <p style="margin: 5px 0;">ST. LOUIS DOWNTOWN SITE</p> <p style="margin: 5px 0;">ST. LOUIS, MISSOURI</p>                                                                                                                                                                                                                                                                                                                                 |                |                  |                |          |       |         |   |   |               |                  |              |  |  |  |                  |
| Checked by:<br><b>K. Beoch</b><br><br>Approved by:<br><b>B. Fox</b>   | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Scale:</td> <td style="width: 30%;">AS SHOWN</td> <td style="width: 20%;">Figure Number:</td> <td style="width: 20%;">Spec No.</td> </tr> <tr> <td>Date:</td> <td>8/10/06</td> <td rowspan="2" style="text-align: center; vertical-align: middle; font-size: 2em;">1</td> <td style="text-align: center;">—</td> </tr> <tr> <td>Drawing File:</td> <td>845843-R1013.dwg</td> <td>Contract No.</td> </tr> <tr> <td colspan="2"></td> <td></td> <td>DACW41-98-D-9006</td> </tr> </table> | Scale:         | AS SHOWN         | Figure Number: | Spec No. | Date: | 8/10/06 | 1 | — | Drawing File: | 845843-R1013.dwg | Contract No. |  |  |  | DACW41-98-D-9006 |
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|                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                | DACW41-98-D-9006 |                |          |       |         |   |   |               |                  |              |  |  |  |                  |





KEY PLAN

LEGEND:

- (1909) HISTORICAL REFERENCE
- 108 HISTORICAL STRUCTURE
- ++++ HISTORICAL TRACKS
- x-x- HISTORICAL FENCE
- (M203) (M236) HISTORICAL TANKS
- HISTORICAL ELEVATION OF INTEREST (TYPICAL)
- 1941 HISTORICAL LOW-LYING/FILL AREA
- 424 HISTORICAL CONTOURS (1933)
- 420 CURRENT CONTOURS (2005)

GENERAL NOTE:

SEE COVER SHEET (FIGURE 1) FOR GENERAL AND EXISTING UTILITY LEGEND AND ABBREVIATIONS (TYPICAL ALL FIGURES).



STATE PLANE GRID  
(EAST ZONE NAD 83)

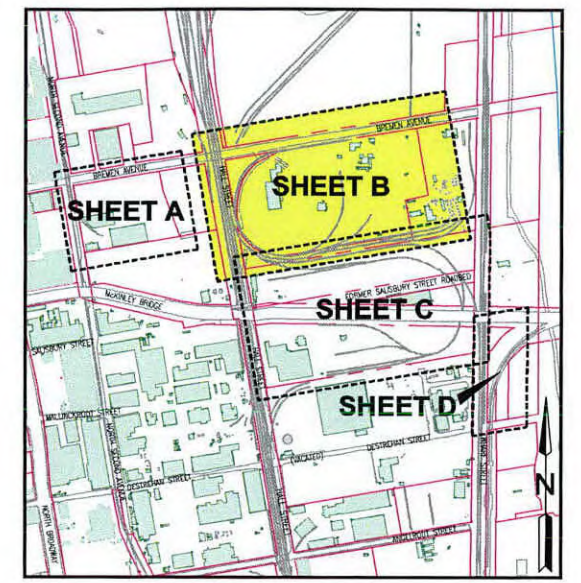
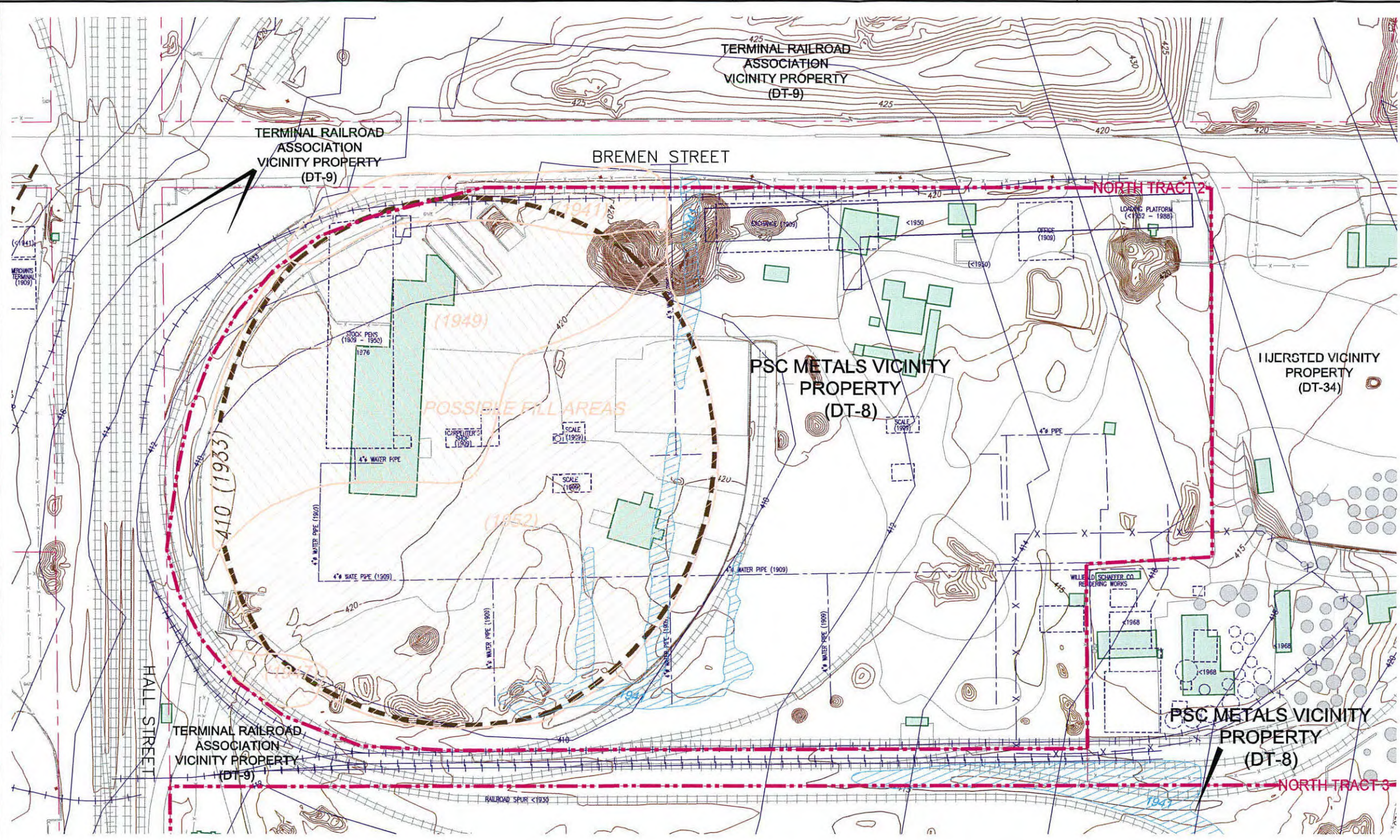
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|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------|
| Designed by:<br>B. Eberlin | <b>HISTORICAL FEATURES MAP</b><br>PSC METALS VICINITY PROPERTY (NORTH TRACT 1)<br>ST. LOUIS DOWNTOWN SITE<br>ST. LOUIS, MISSOURI |                                  |               |
| Drawn by:<br>M. Peake      | Scale:<br>AS SHOWN                                                                                                               | Figure -<br>Sheet No.:<br>2-A    | Spec No.<br>- |
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| Approved by:<br>B. Fox     | Drawing File:<br>845843-B104.dwg                                                                                                 |                                  |               |





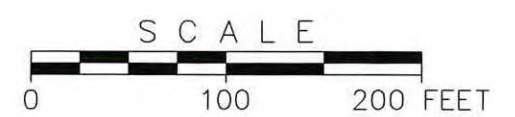
KEY PLAN

LEGEND:

- (1909) HISTORICAL REFERENCE
- 108 HISTORICAL STRUCTURE
- HISTORICAL TRACKS
- x-x- HISTORICAL FENCE
- (M209) (M236) HISTORICAL TANKS
- HISTORICAL ELEVATION OF INTEREST (TYPICAL)
- 1941 HISTORICAL LOW-LYING/FILL AREA
- 424 HISTORICAL CONTOURS (1933)
- 420 CURRENT CONTOURS (2005)
- 1941 POSSIBLE FILL AREA

GENERAL NOTE:

SEE COVER SHEET (FIGURE 1) FOR GENERAL AND EXISTING UTILITY LEGEND AND ABBREVIATIONS (TYPICAL ALL FIGURES).



STATE PLANE GRID  
(EAST ZONE NAD 83)

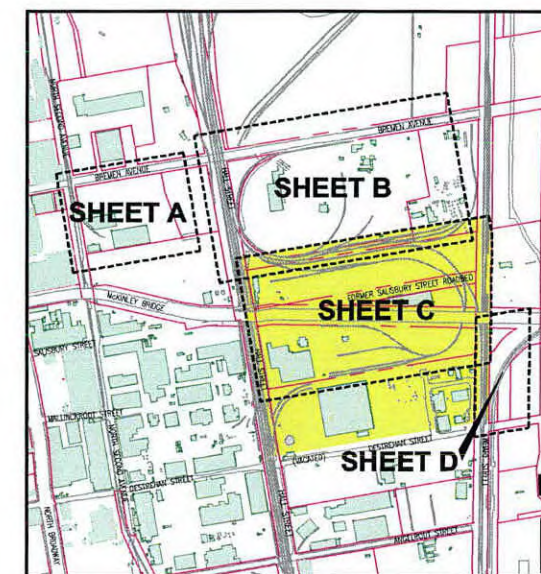
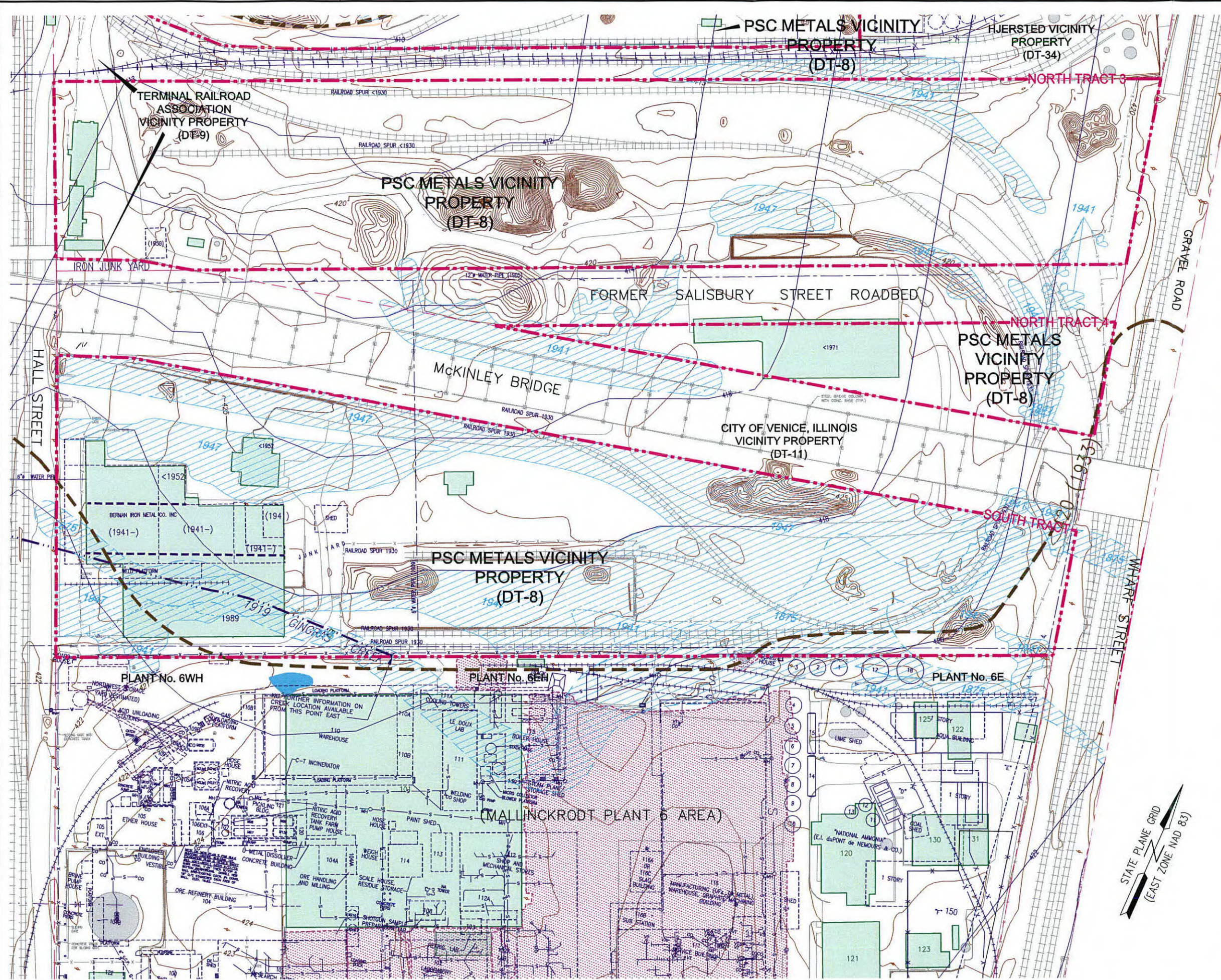
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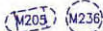
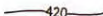
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| Drawn by:<br>M. Peake      | Scale:<br>AS SHOWN                                                                                                               | Figure -<br>Sheet No.: | Spec No.:        |
| Checked by:<br>K. Beach    | Date:<br>8/10/06                                                                                                                 | 2-B                    | Contract No.:    |
| Approved by:<br>B. Fox     | Drawing File:<br>845843-B104.dwg                                                                                                 |                        | DACW41-98-D-9006 |





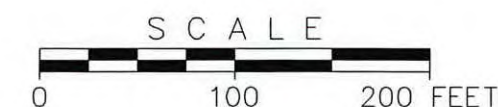
## KEY PLAN

LEGEND:

- |                                                                                       |                                            |
|---------------------------------------------------------------------------------------|--------------------------------------------|
| (1909)                                                                                | HISTORICAL REFERENCE                       |
|    | HISTORICAL STRUCTURE                       |
|    | HISTORICAL TRACKS                          |
|    | HISTORICAL FENCE                           |
|    | HISTORICAL TANKS                           |
|    | HISTORICAL ELEVATION OF INTEREST (TYPICAL) |
|    | HISTORICAL LOW-LYING/FILL AREA             |
|  | HISTORICAL CONTOURS (1933)                 |
|  | CURRENT CONTOURS (2005)                    |
|  | AREA PREVIOUSLY REMEDIATED (TYPICAL)       |

GENERAL NOTE:

SEE COVER SHEET (FIGURE 1) FOR GENERAL AND EXISTING UTILITY  
LEGEND AND ABBREVIATIONS (TYPICAL ALL FIGURES).



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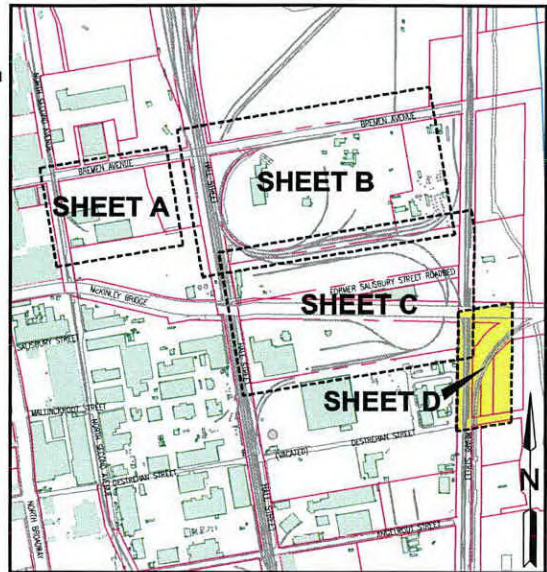
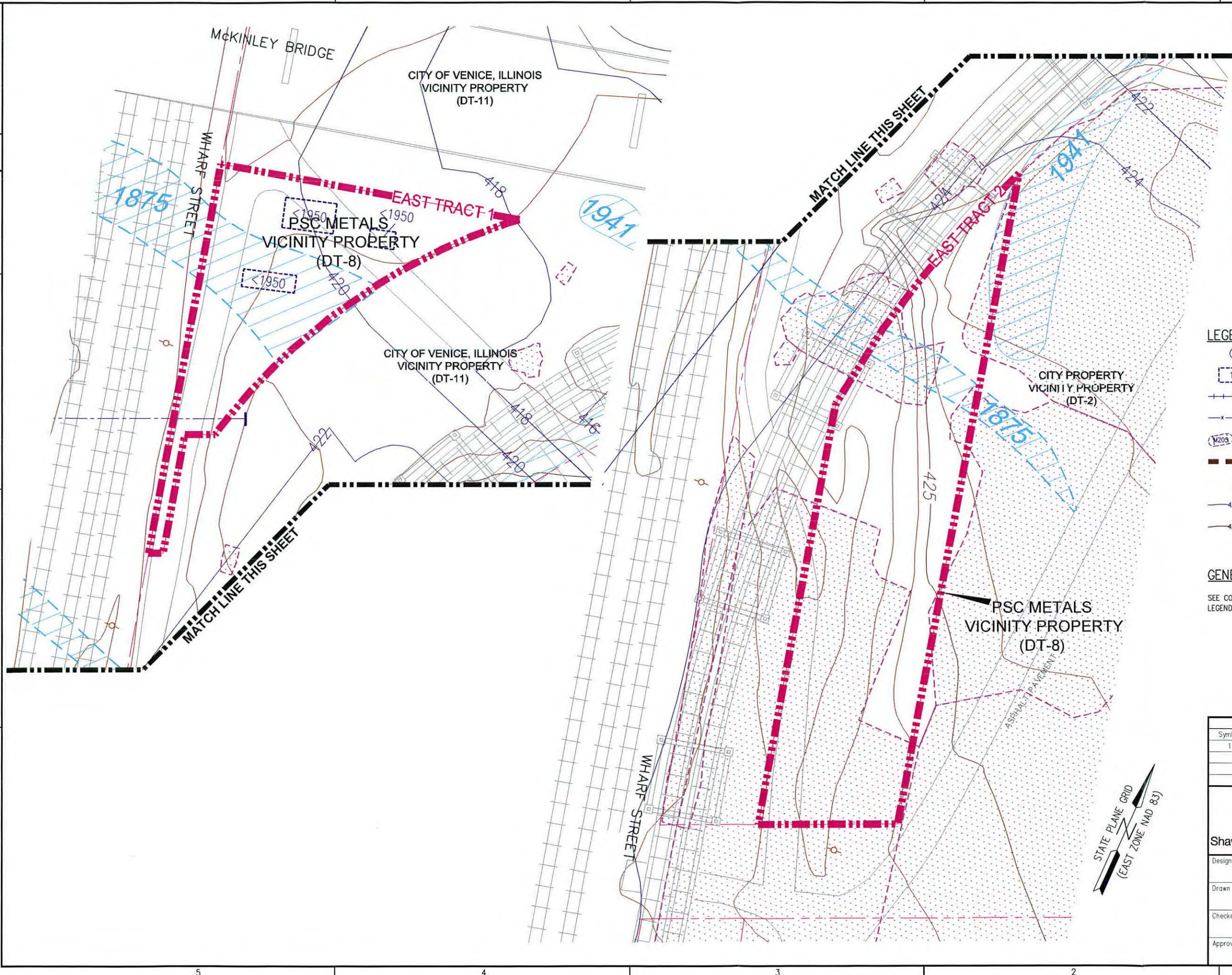
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| Designed by:<br><b>B. Eberlin</b> | <div><u><b>HISTORICAL FEATURES MAP</b></u><br/><br/>PSC METALS VICINITY PROPERTY (N. TRACT 3&amp;4, S. TRACT 3&amp;4)<br/>ST. LOUIS DOWNTOWN SITE<br/>ST. LOUIS, MISSOURI</div> |                        |                                      |
| Drawn by:<br><b>M. Peake</b>      |                                                                                                                                                                                 |                        |                                      |
| Checked by:<br><b>K. Beach</b>    |                                                                                                                                                                                 |                        |                                      |
| Approved by:<br><b>B. Fox</b>     |                                                                                                                                                                                 |                        |                                      |
|                                   | Scale:<br><b>AS SHOWN</b>                                                                                                                                                       | Figure —<br>Sheet No.: | Spec No.<br><br>—                    |
|                                   | Date:<br><b>8/10/06</b>                                                                                                                                                         | <div><b>2-C</b></div>  | Contract No.<br><br>DACW41-98-D-9006 |
|                                   | Drawing File:<br><b>R45843-R104.dwg</b>                                                                                                                                         |                        |                                      |





KEY PLAN

LEGEND:

- (1909) HISTORICAL REFERENCE
- 108 HISTORICAL STRUCTURE
- ++++ HISTORICAL TRACKS
- x-x- HISTORICAL FENCE
- (M208) (M236) HISTORICAL TANKS
- HISTORICAL ELEVATION OF INTEREST (TYPICAL)
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- 424 HISTORICAL CONTOURS (1933)
- 420 CURRENT CONTOURS (2005)
- AREA PREVIOUSLY REMEDIATED (TYPICAL)

GENERAL NOTE:

SEE COVER SHEET (FIGURE 1) FOR GENERAL AND EXISTING UTILITY LEGEND AND ABBREVIATIONS (TYPICAL ALL FIGURES).



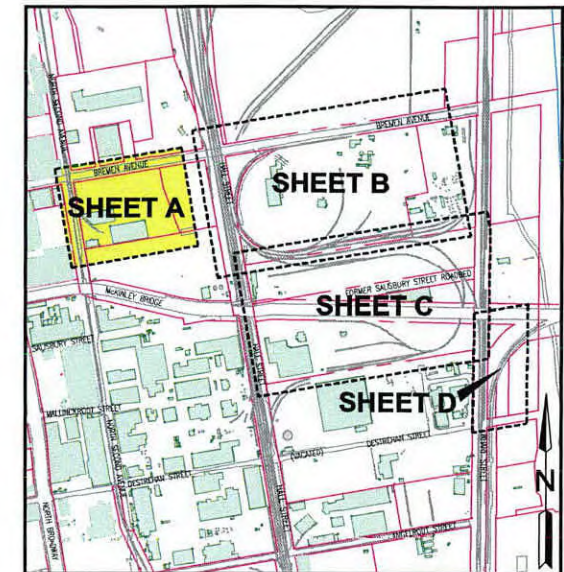
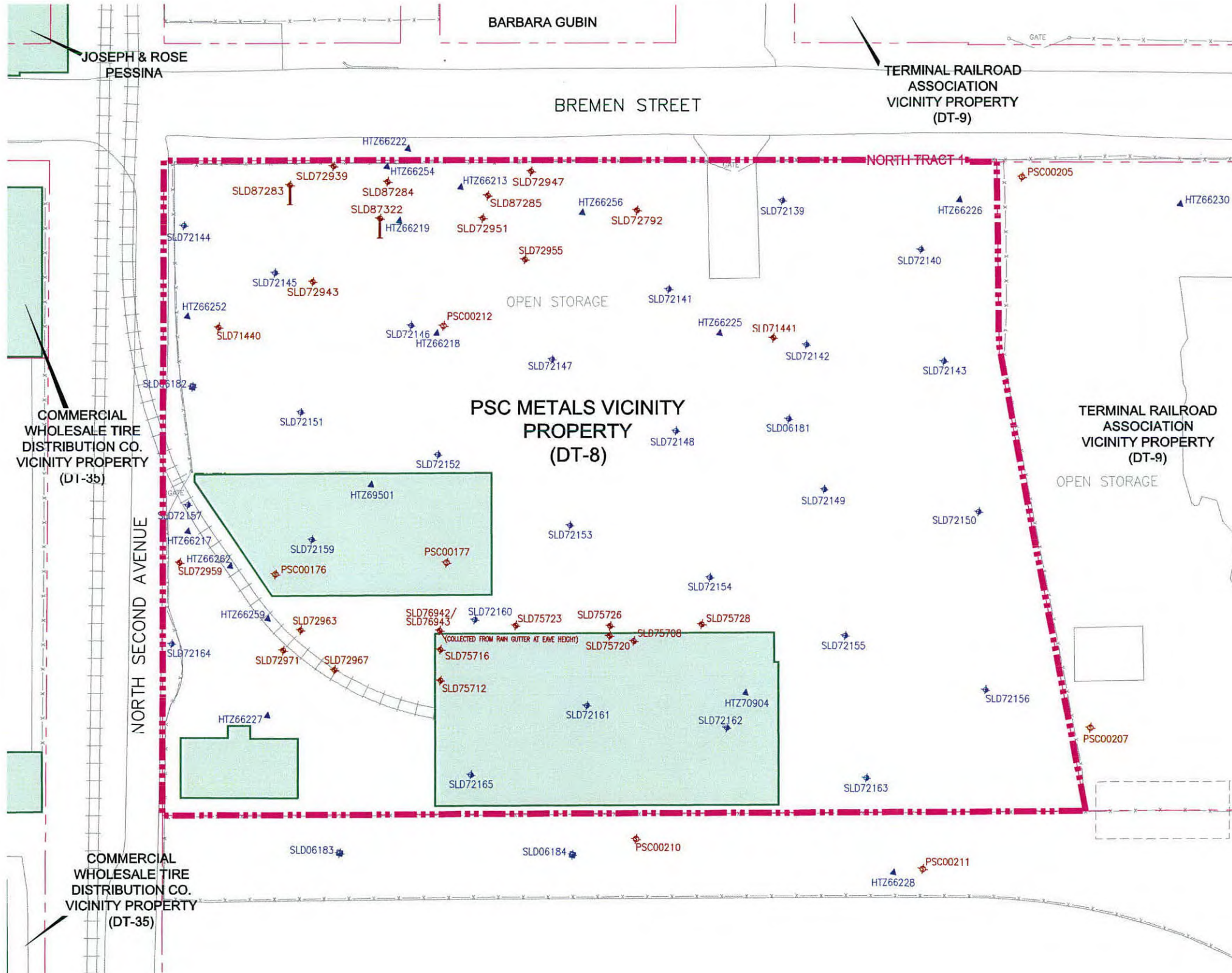
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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------|
| Designed by:<br>B. Eberlin | <b>HISTORICAL FEATURES MAP</b><br>PSC METALS VICINITY PROPERTY (EAST TRACT 1&2)<br>ST. LOUIS DOWNTOWN SITE<br>ST. LOUIS, MISSOURI |                        |                  |
| Drawn by:<br>M. Peake      | Scale:<br>AS SHOWN                                                                                                                | Figure -<br>Sheet No.: | Spec No. -       |
| Checked by:<br>K. Beach    | Date:<br>8/10/06                                                                                                                  | 2-D                    | Contract No.     |
| Approved by:<br>B. Fox     | Drawing File:<br>845843-B104.dwg                                                                                                  |                        | DACW41-98-D-9006 |

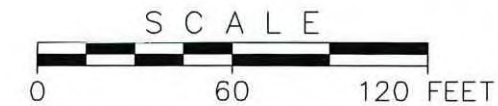
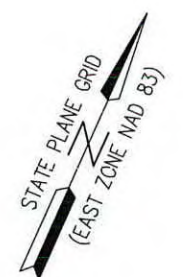




KEY PLAN

GENERAL NOTE:

SEE COVER SHEET (FIGURE 1) FOR GENERAL AND EXISTING UTILITY LEGEND AND ABBREVIATIONS (TYPICAL ALL FIGURES).



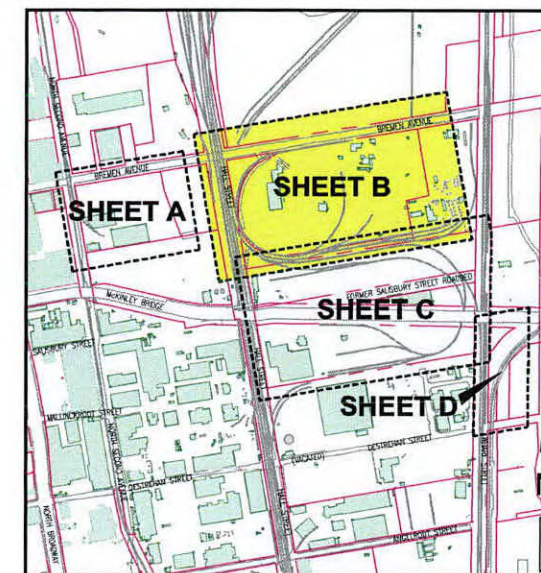
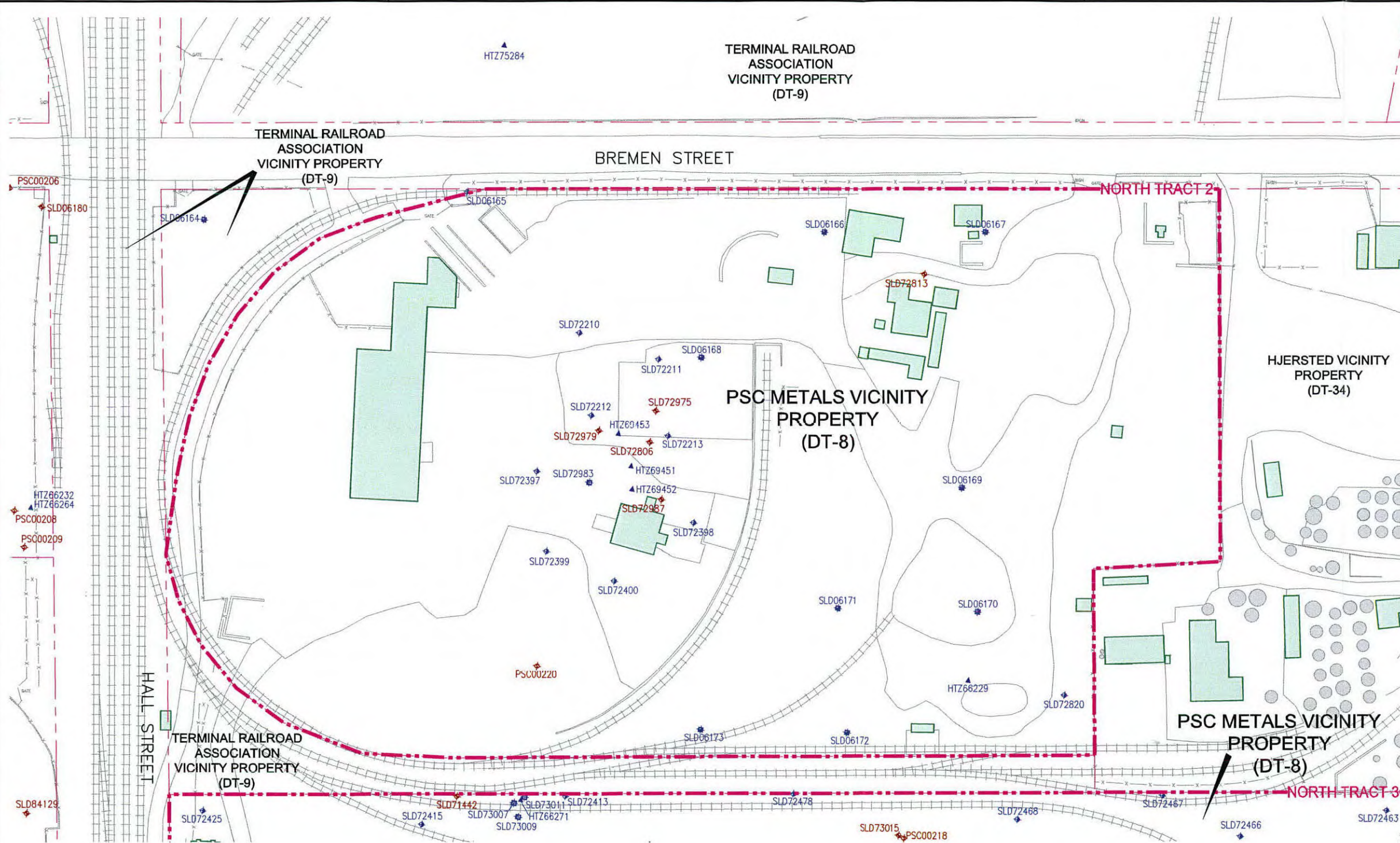
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|                                   |                                                                                                                                                   |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Designed by:<br><b>B. Eberlin</b> | <b>SAMPLE LOCATION MAP</b><br><b>PSC METALS VICINITY PROPERTY (NORTH TRACT 1)</b><br><b>ST. LOUIS DOWNTOWN SITE</b><br><b>ST. LOUIS, MISSOURI</b> |
| Drawn by:<br><b>M. Peake</b>      |                                                                                                                                                   |
| Checked by:<br><b>K. Beach</b>    |                                                                                                                                                   |
| Approved by:<br><b>B. Fox</b>     |                                                                                                                                                   |
|                                   |                                                                                                                                                   |

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| Scale:<br><b>AS SHOWN</b>                  | Figure -<br>Sheet No.:<br><b>3-A</b> | Spec No.<br><br><b>—</b>                    |
| Date:<br><b>8/10/06</b>                    | <b>3-A</b>                           | Contract No.<br><br><b>DACW41-98-D-9006</b> |
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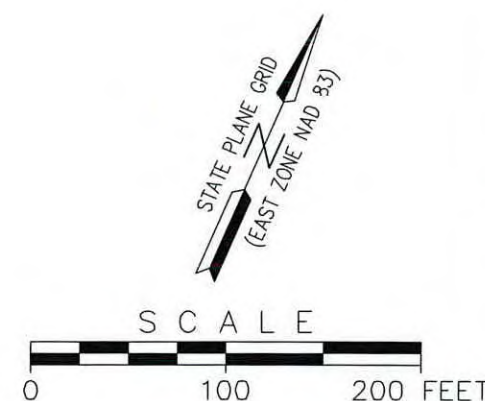




## KEY PLAN

GENERAL NOTE:

SEE COVER SHEET (FIGURE 1) FOR GENERAL AND EXISTING UTILITY  
LEGEND AND ABBREVIATIONS (TYPICAL ALL FIGURES).

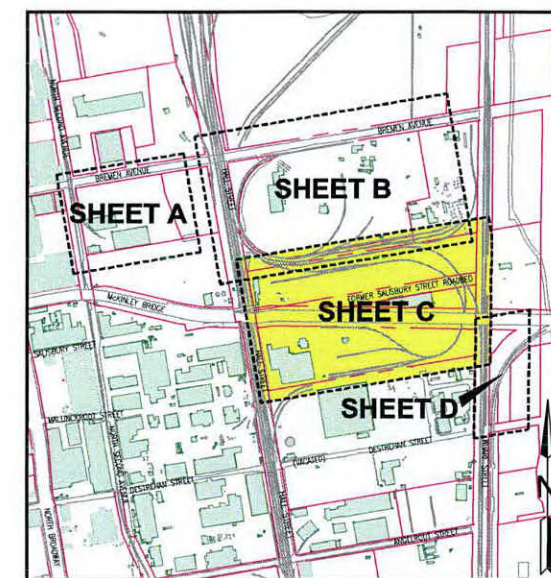
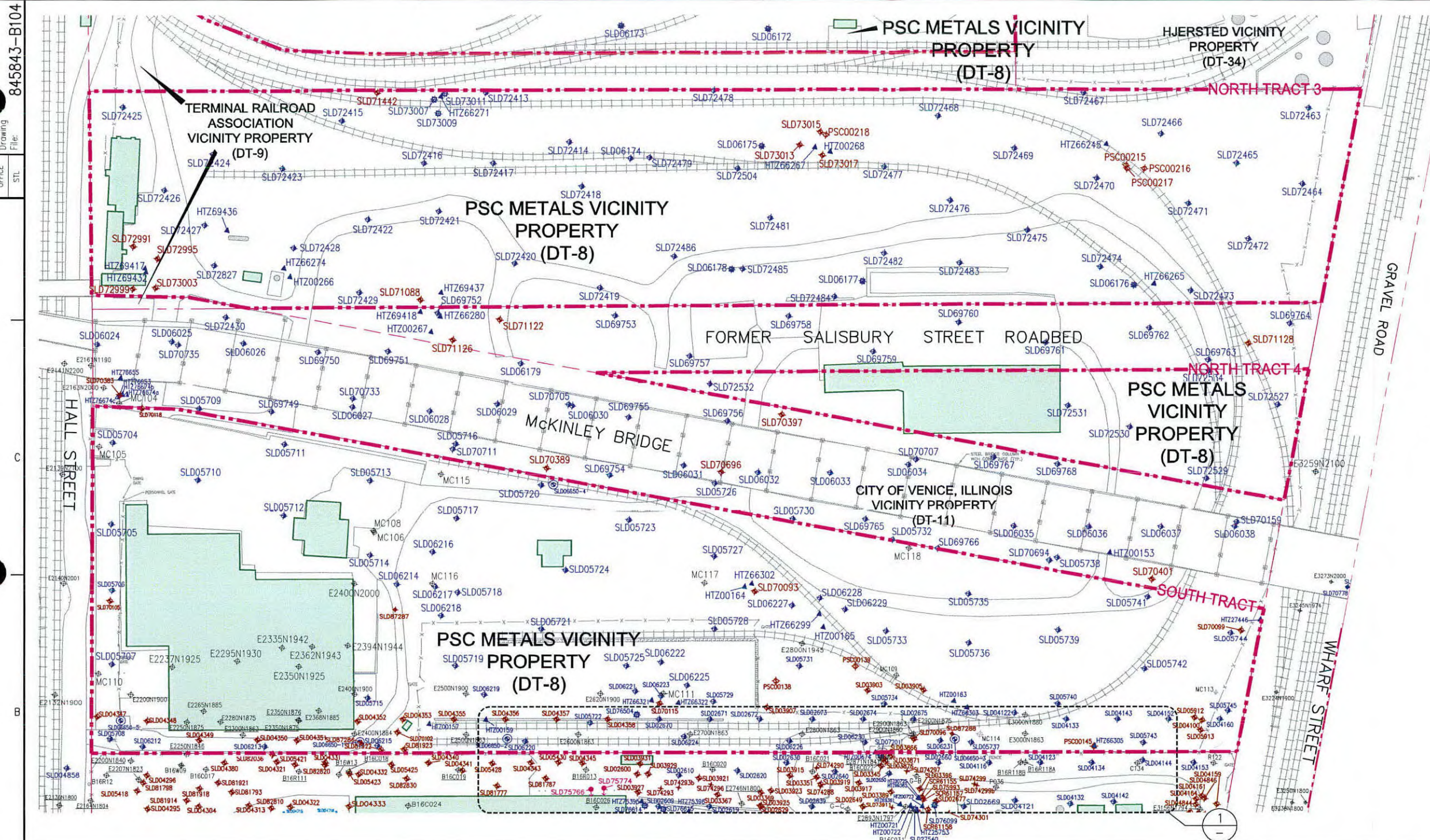


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|                                   |                                                                                                                                                          |                                          |                                             |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------------------------------------|
| Designed by:<br><b>B. Eberlin</b> | <u><b>SAMPLE LOCATION MAP</b></u><br><b>PSC METALS VICINITY PROPERTY (NORTH TRACT 2)</b><br><b>ST. LOUIS DOWNTOWN SITE</b><br><b>ST. LOUIS, MISSOURI</b> |                                          |                                             |
| Drawn by:<br><b>M. Peake</b>      |                                                                                                                                                          |                                          |                                             |
| Checked by:<br><b>K. Beach</b>    | Scale:<br><b>AS SHOWN</b>                                                                                                                                | Figure -<br>Sheet No.:<br><br><b>3-B</b> | Spec No.<br><br><b>—</b>                    |
| Approved by:<br><b>B. Fox</b>     | Date:<br><b>8/10/06</b>                                                                                                                                  |                                          | Contract No.<br><br><b>DACW41-98-D-9006</b> |
|                                   | Drawing<br>File: <b>845843-R104.dwg</b>                                                                                                                  |                                          |                                             |





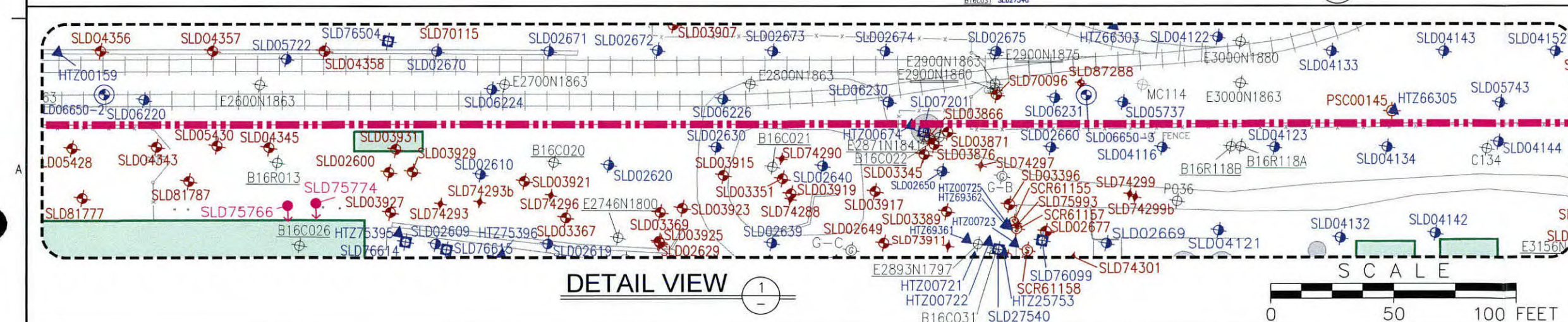
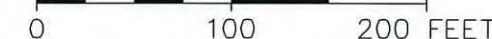
## KEY PLAN

GENERAL NOTE:

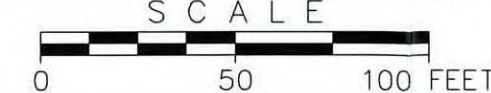
SEE COVER SHEET (FIGURE 1) FOR GENERAL AND EXISTING UTILITY  
LEGEND AND ABBREVIATIONS (TYPICAL ALL FIGURES).



SCALE

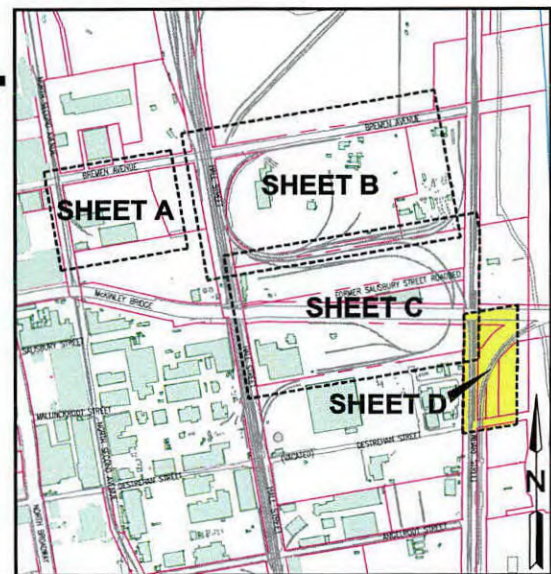
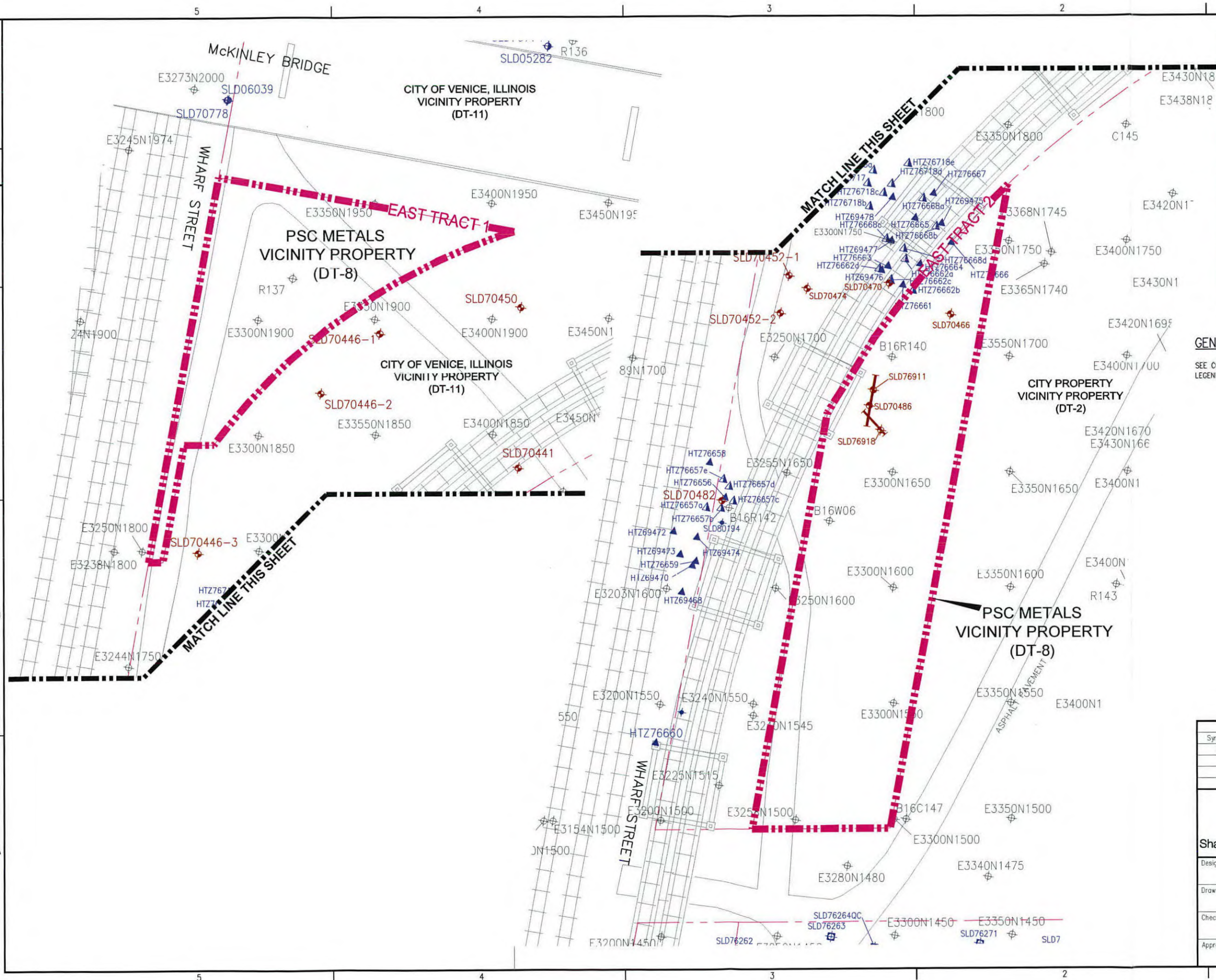


### DETAIL VIEW



| Revisions                                                                                                                         |                       |                                                                                                                                                                                                                                                                           |                                         |                                         |          |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------|----------|
| Symbol                                                                                                                            | Descriptions          |                                                                                                                                                                                                                                                                           |                                         | Date                                    | Approved |
| I                                                                                                                                 | ISSUED FOR REV 1 PDIR |                                                                                                                                                                                                                                                                           |                                         | 8/10/06                                 | KB       |
|                                                                                                                                   |                       |                                                                                                                                                                                                                                                                           |                                         |                                         |          |
|                                                                                                                                   |                       |                                                                                                                                                                                                                                                                           |                                         |                                         |          |
|                                                                                                                                   |                       |                                                                                                                                                                                                                                                                           |                                         |                                         |          |
| <br><b>Shaw®</b><br>Shaw Environmental, Inc. |                       | <br> U.S. ARMY CORPS OF ENGINEERS<br>KANSAS CITY DISTRICT (CEMVK)<br>ST. LOUIS DISTRICT (CEMVS) |                                         |                                         |          |
| Designed by:<br><b>B. Eberlin</b>                                                                                                 |                       | <u>SAMPLE LOCATION MAP</u><br>PSC METALS VICINITY PROPERTY (N. TRACT 3&4, S. TRACT)<br>ST. LOUIS DOWNTOWN SITE<br>ST. LOUIS, MISSOURI                                                                                                                                     |                                         |                                         |          |
| Drawn by:<br><b>M. Peake</b>                                                                                                      |                       |                                                                                                                                                                                                                                                                           |                                         |                                         |          |
| Checked by:<br><b>K. Beach</b>                                                                                                    |                       | Scale:<br><b>AS SHOWN</b>                                                                                                                                                                                                                                                 | Figure —<br>Sheet No.:<br><b>3-C</b>    | Spec No.<br><b>—</b>                    |          |
| Approved by:<br><b>B. Fox</b>                                                                                                     |                       | Date:<br><b>8/10/06</b>                                                                                                                                                                                                                                                   | Drawing File:<br><b>845843-BT04.dwg</b> | Contract No.<br><b>DACW41-98-D-9006</b> |          |





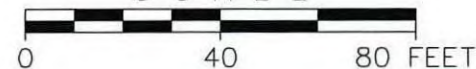
## KEY PLAN

GENERAL NOTE:

SEE COVER SHEET (FIGURE 1) FOR GENERAL AND EXISTING UTILITY  
LEGEND AND ABBREVIATIONS (TYPICAL ALL FIGURES).



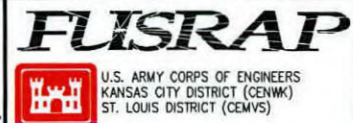
SCALE



| Revisions |                       |         |          |
|-----------|-----------------------|---------|----------|
| Symbol    | Descriptions          | Date    | Approved |
| 1         | ISSUED FOR REV 1 PDIR | 8/10/06 | KB       |
|           |                       |         |          |
|           |                       |         |          |
|           |                       |         |          |



Shaw Environmental, Inc.

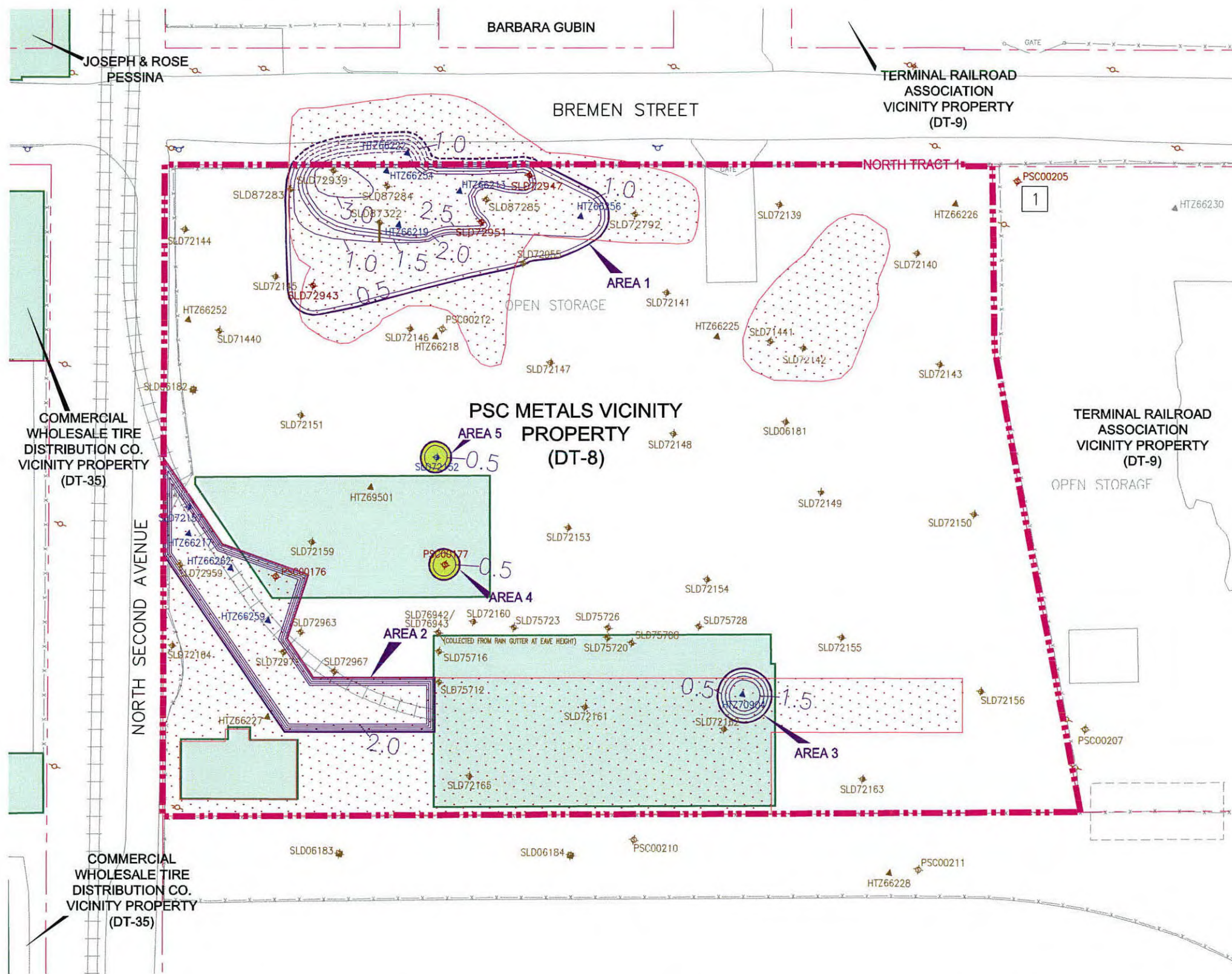


SAMPLE LOCATION MAP

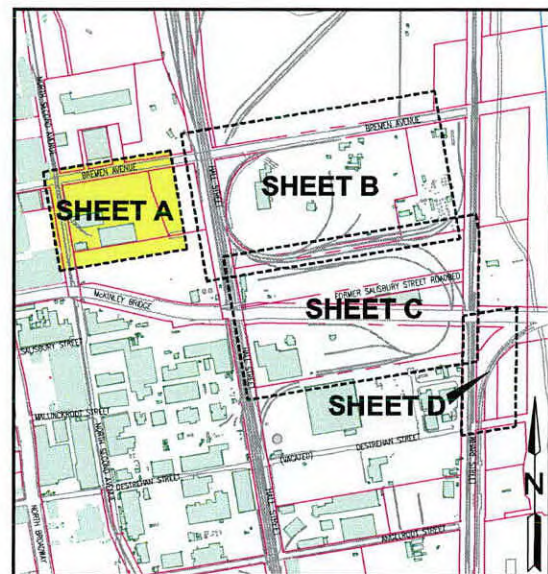
PSC METALS VICINITY PROPERTY (EAST TRACT 1&2)  
ST. LOUIS DOWNTOWN SITE  
ST. LOUIS, MISSOURI

|                            |                                                                                                                                                                                    |                        |                                  |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------------|
| Designed by:<br>B. Eberlin | <div style="text-align: center;"> <h2>SAMPLE LOCATION MAP</h2> <p>PSC METALS VICINITY PROPERTY (EAST TRACT 1&amp;2)<br/>ST. LOUIS DOWNTOWN SITE<br/>ST. LOUIS, MISSOURI</p> </div> |                        |                                  |
| Drawn by:<br>M. Peake      | Scale:<br>AS SHOWN                                                                                                                                                                 | Figure -<br>Sheet No.: | Spec No.<br>—                    |
| Checked by:<br>K. Beach    | Date:<br>8/10/06                                                                                                                                                                   | 3-D                    | Contract No.<br>DACW41-98-D-9006 |
| Approved by:<br>B. Fox     | Drawing<br>File:<br>845843-B104.dwg                                                                                                                                                |                        |                                  |





| Sample Loc. | Sample ID | Starting Depth (ft. bgs) | SOR <sub>net</sub> | Sample Loc. | Sample ID | Starting Depth (ft. bgs) | SOR <sub>net</sub> | Sample Loc. | Sample ID | Starting Depth (ft. bgs) | SOR <sub>net</sub> | Sample Loc. | Sample ID | Starting Depth (ft. bgs) | SOR <sub>net</sub> |
|-------------|-----------|--------------------------|--------------------|-------------|-----------|--------------------------|--------------------|-------------|-----------|--------------------------|--------------------|-------------|-----------|--------------------------|--------------------|
| HTZ66213    | HTZ66213  | 0.0                      | 53.07              | HTZ66222    | HTZ66222  | 0.0                      | 5.70               | HTZ66261    | HTZ66261  | 1.0                      | 1.74               | SLD72152    | SLD72152  | 0.0                      | 1.45               |
| HTZ66214    | HTZ66214  | 0.5                      | 36.90              | HTZ66223    | HTZ66223  | 0.5                      | 2.34               | HTZ66262    | HTZ66262  | 0.0                      | 10.48              | SLD72157    | SLD72157  | 0.0                      | 1.54               |
| HTZ66215    | HTZ66215  | 1.0                      | 3.34               | HTZ66224    | HTZ66224  | 1.0                      | 1.00               | HTZ66263    | HTZ66263  | 0.5                      | 1.46               | SLD72943    | SLD72943  | 0.0                      | 2.26               |
| HTZ66216    | HTZ66216  | 1.5                      | 10.53              | HTZ66254    | HTZ66254  | 0.0                      | 21.10              | HTZ70904    | HTZ70904  | 0.0                      | 3.86               | SLD72947    | SLD72947  | 1.0                      | 1.71               |
| HTZ66217    | HTZ66217  | 0.0                      | 12.99              | HTZ66255    | HTZ66255  | 0.5                      | 18.98              | HTZ70906    | HTZ70906  | 1.0                      | 1.04               | SLD72951    | SLD72951  | 1.0                      | 1.71               |
| HTZ66219    | HTZ66219  | 0.0                      | 11.42              | HTZ66256    | HTZ66256  | 0.5                      | 1.12               | PSC00176    | PSC00176  | 0.0                      | 1.34               |             |           |                          |                    |
| HTZ66220    | HTZ66220  | 0.5                      | 4.11               | HTZ66259    | HTZ66259  | 0.0                      | 5.47               | PSC00177    | PSC00177  | 0.0                      | 1.31               |             |           |                          |                    |
| HTZ66221    | HTZ66221  | 1.0                      | 1.69               | HTZ66260    | HTZ66260  | 0.5                      | 7.34               | PSC00205    | PSC00205  | 0.0                      | 1.22               |             |           |                          |                    |



KEY PLAN

## LEGEND:

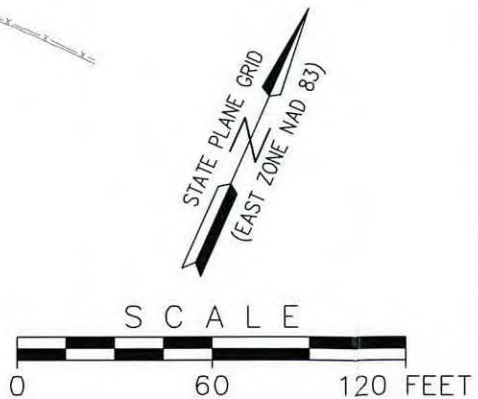
- SLDxxxxx = SAMPLE LOCATIONS WITH SOR VALUES  $\geq 1.0$
- HTZxxxxx = SAMPLE LOCATIONS WITH SOR VALUES  $< 1.0$
- SLDxxxxx = SAMPLE LOCATIONS (50 FEET BEYOND SUBJECT PROPERTY)
- HTZxxxxx = SAMPLE LOCATIONS (50 FEET BEYOND SUBJECT PROPERTY)
- 0.5 — ESTIMATED MAXIMUM RADIOLOGICAL CONTAMINATION DEPTH CONTOUR (FT BGS)
- 1.0 --- ESTIMATED CONTOUR OUTSIDE PSC METALS BOUNDARY (FT BGS)
- AREA IDENTIFIED FOR ADDITIONAL SAMPLING IN ACCORDANCE WITH THE FSSP (TYPICAL)
- AREA OF HISTORICAL/GEOLOGICAL INTEREST (TYPICAL)
- AREA PREVIOUSLY REMEDIATED (TYPICAL)

## KEYED NOTE:

- 1 SAMPLE LOCATION PSC00205 HAS AN SOR  $\geq 1$ , BUT WILL BE ADDRESSED WITH THE DT-9 VICINITY PROPERTY.

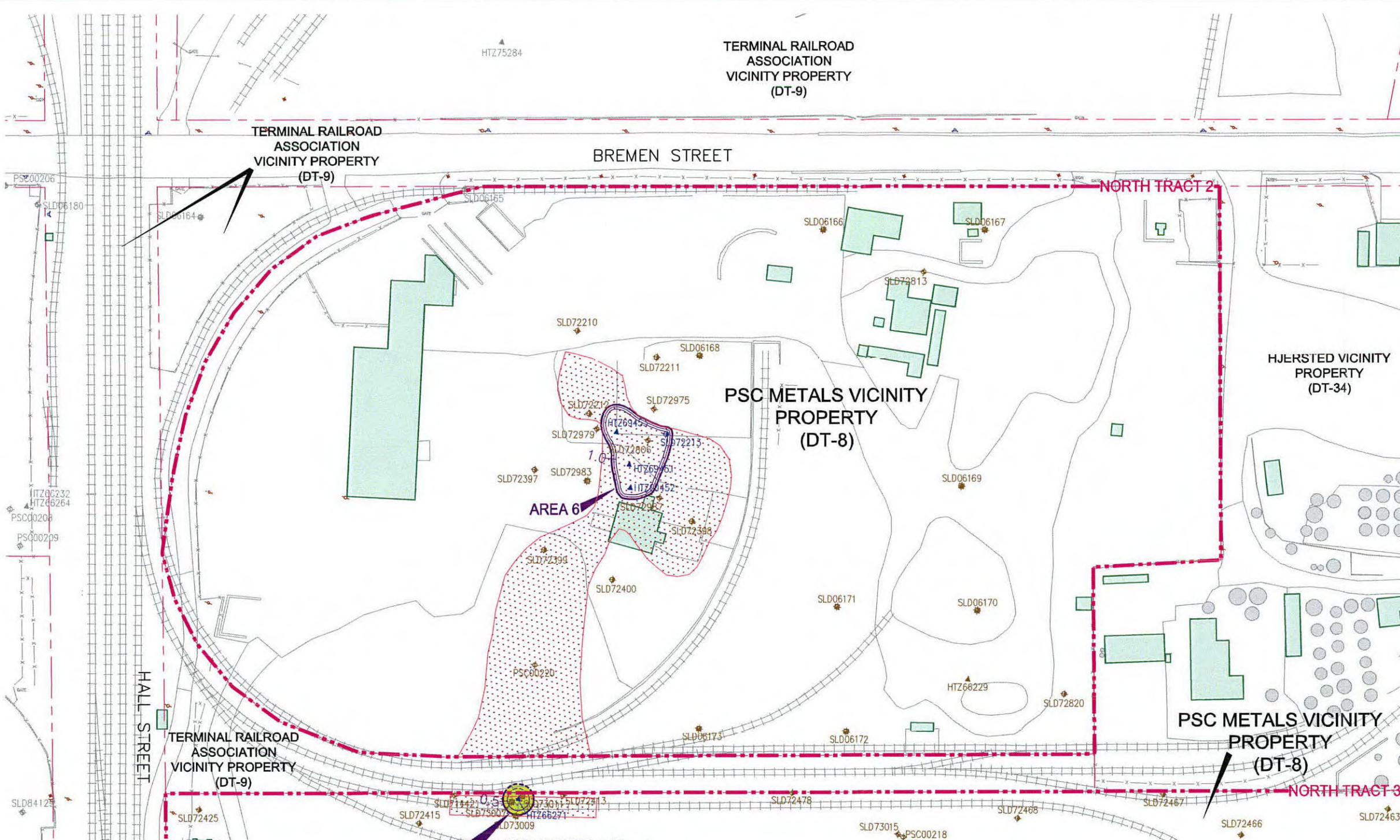
## GENERAL NOTE:

SEE COVER SHEET (FIGURE 1) FOR GENERAL AND EXISTING UTILITY LEGEND AND ABBREVIATIONS (TYPICAL ALL FIGURES).



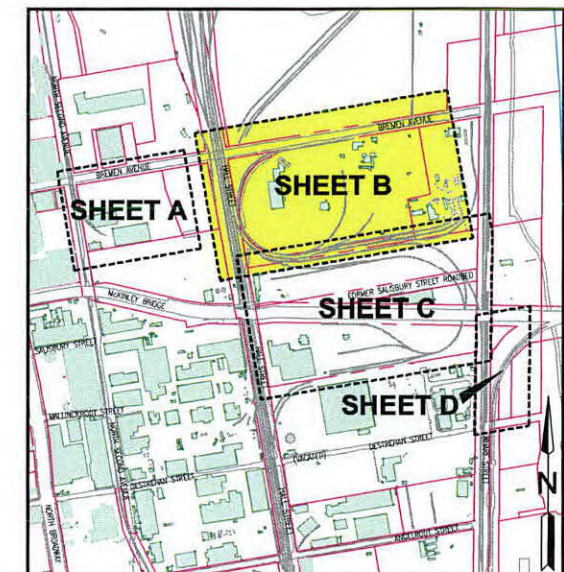
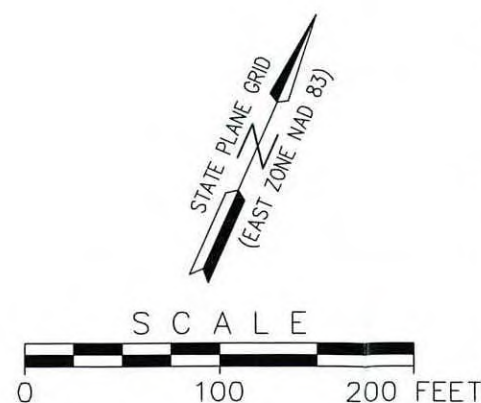
| Revisions                        |                       |                                                                                                                                         |          |
|----------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|
| Symbol                           | Descriptions          | Date                                                                                                                                    | Approved |
| 1                                | ISSUED FOR REV 1 PDIR | 8/10/06                                                                                                                                 | KB       |
|                                  |                       |                                                                                                                                         |          |
|                                  |                       |                                                                                                                                         |          |
|                                  |                       |                                                                                                                                         |          |
| Designed by:<br>B. Eberlin       |                       | ESTIMATED EXTENT OF CONTAMINATION MAP<br>PSC METALS VICINITY PROPERTY (NORTH TRACT 1)<br>ST. LOUIS DOWNTOWN SITE<br>ST. LOUIS, MISSOURI |          |
| Drawn by:<br>M. Peake            |                       |                                                                                                                                         |          |
| Checked by:<br>K. Beach          |                       |                                                                                                                                         |          |
| Approved by:<br>B. Fox           |                       |                                                                                                                                         |          |
| Scale:<br>AS SHOWN               |                       | Figure —<br>Sheet No.:<br>4-A                                                                                                           |          |
| Date:<br>8/10/06                 |                       | Spec No.:<br>—                                                                                                                          |          |
| Drawing File:<br>845843-B104.dwg |                       | Contract No.:<br>DACW41-98-D-9006                                                                                                       |          |





| Sample Loc. | Sample ID | Starting Depth (ft. bgs) | SOR <sub>net</sub> |
|-------------|-----------|--------------------------|--------------------|
| HTZ69451    | HTZ69451  | 0.0                      | 11.06              |
| HTZ69452    | HTZ69452  | 0.0                      | 12.03              |
| HTZ69453    | HTZ69453  | 0.0                      | 8.24               |
| SLD72213    | SLD72213  | 0.0                      | 1.08               |

AREA 8 (SEE FIGURE 4-C)



KEY PLAN

LEGEND:

- SLDxxxxxx = SAMPLE LOCATIONS WITH SOR VALUES  $\geq 1.0$
- HTZxxxxxx = SAMPLE LOCATIONS WITH SOR VALUES  $< 1.0$
- SLDxxxxxx = SAMPLE LOCATIONS (OUTSIDE OF SUBJECT PROPERTY)
- HTZxxxxxx = SAMPLE LOCATIONS (OUTSIDE OF SUBJECT PROPERTY)
- 0.5 — ESTIMATED MAXIMUM RADIOLOGICAL CONTAMINATION DEPTH CONTOUR (FT BGS)
- 1.0 --- ESTIMATED CONTOUR OUTSIDE PSC METALS BOUNDARY (FT BGS)
- AREA IDENTIFIED FOR ADDITIONAL SAMPLING IN ACCORDANCE WITH THE FSSP (TYPICAL)
- AREA OF HISTORICAL/GEOLOGICAL INTEREST (TYPICAL)
- AREA PREVIOUSLY REMEDIATED (TYPICAL)

GENERAL NOTE:

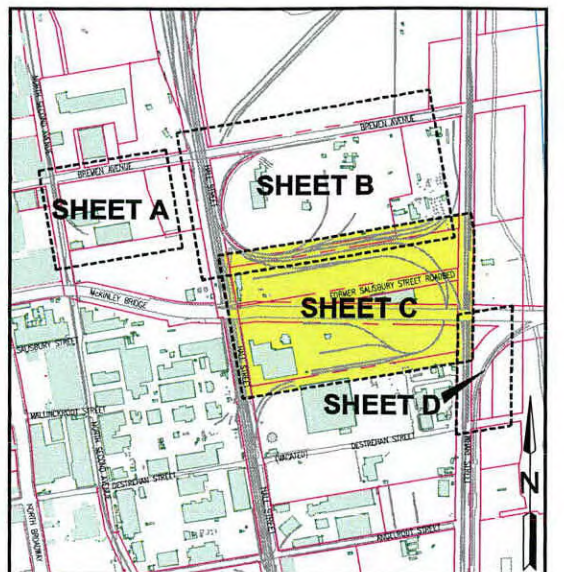
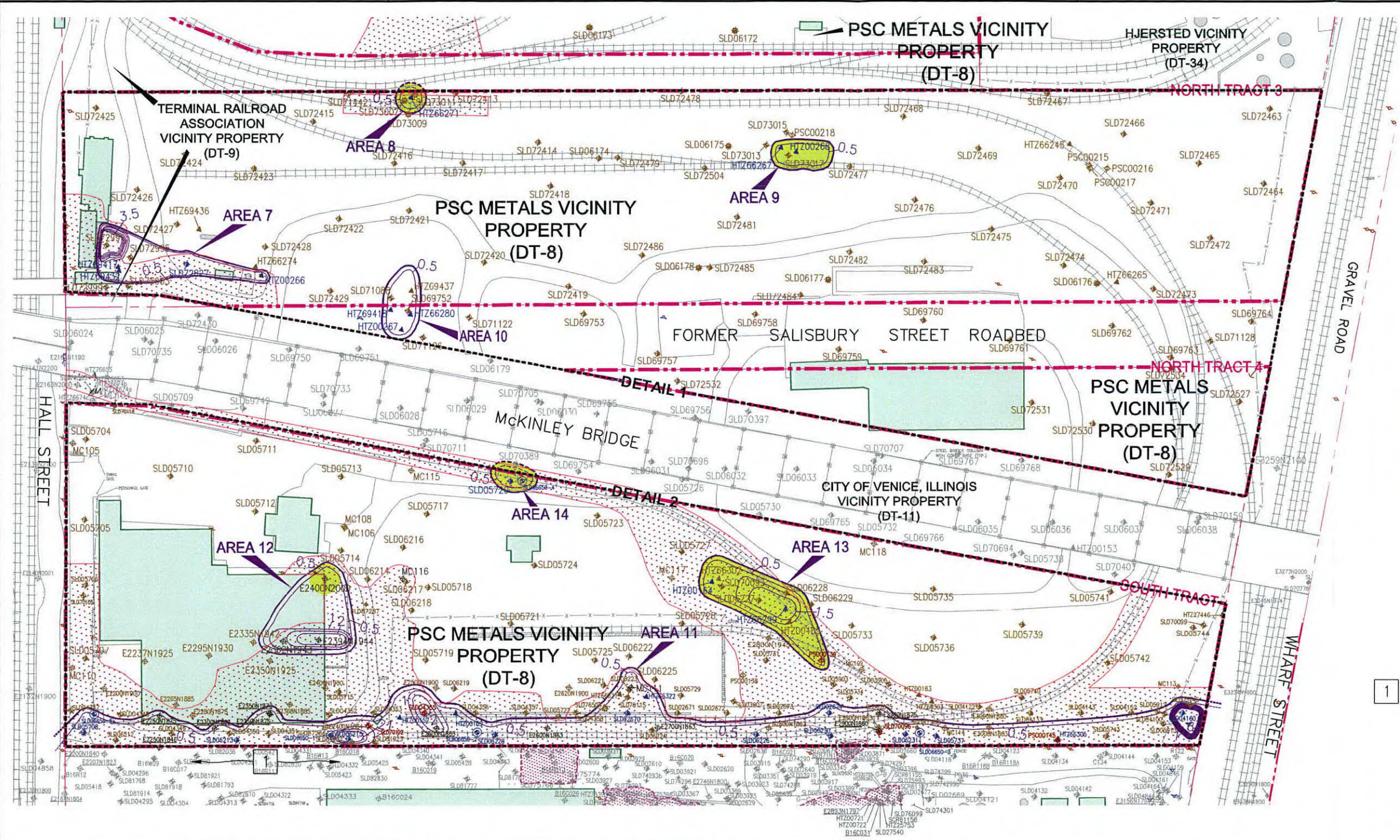
SEE COVER SHEET (FIGURE 1) FOR GENERAL AND EXISTING UTILITY LEGEND AND ABBREVIATIONS (TYPICAL ALL FIGURES).

| Revisions |                       |         |          |
|-----------|-----------------------|---------|----------|
| Symbol    | Descriptions          | Date    | Approved |
| 1         | ISSUED FOR REV 1 PDIR | 8/10/06 | KB       |

U.S. ARMY CORPS OF ENGINEERS  
KANSAS CITY DISTRICT (CENWK)  
ST. LOUIS DISTRICT (CEMVS)

|                            |                                                                                                                                         |                        |                  |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------|
| Designed by:<br>B. Eberlin | ESTIMATED EXTENT OF CONTAMINATION MAP<br>PSC METALS VICINITY PROPERTY (NORTH TRACT 2)<br>ST. LOUIS DOWNTOWN SITE<br>ST. LOUIS, MISSOURI |                        |                  |
| Drawn by:<br>M. Peake      | Scale:<br>AS SHOWN                                                                                                                      | Figure -<br>Sheet No.: | Spec No.:        |
| Checked by:<br>K. Beach    | Date:<br>8/10/06                                                                                                                        | 4-B                    | Contract No.:    |
| Approved by:<br>B. Fox     | Drawing File:<br>845843-B104.dwg                                                                                                        |                        | OACW41-98-D-9006 |





KEY PLAN

LEGEND:

- SLDxxxxx = SAMPLE LOCATIONS WITH SOR VALUES  $\geq 1.0$
- HTZxxxxx = SAMPLE LOCATIONS WITH SOR VALUES  $< 1.0$
- SLDxxxxx = SAMPLE LOCATIONS OUTSIDE OF SUBJECT PROPERTY
- HORIZONTAL LIMITS OF ESTIMATED DEPTH CONTOUR (FT BGS)
- 0.5 — ESTIMATED MAXIMUM RADIOLOGICAL CONTAMINATION DEPTH CONTOUR (FT BGS)
- 1.0 — ESTIMATED CONTOUR OUTSIDE PSC METALS BOUNDARY (FT BGS)
- AREA IDENTIFIED FOR ADDITIONAL SAMPLING IN ACCORDANCE WITH THE FSSP (TYPICAL)
- AREA OF HISTORICAL/GEOLOGICAL INTEREST (TYPICAL)
- AREA PREVIOUSLY REMEDIATED (TYPICAL)

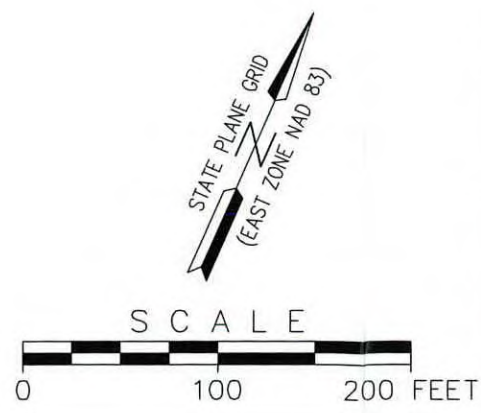
KEYED NOTE:

1 RADIOLOGICAL CONTAMINATION WAS IDENTIFIED DURING THE 2005 PLANT 6 WEST HALF EXCAVATION AT DEPTHS DEEPER THAN DEPICTED ON THIS FIGURE. THIS WILL BE ADDRESSED IN THE DT-8 RAWD.

GENERAL NOTE:

SEE COVER SHEET (FIGURE 1) FOR GENERAL AND EXISTING UTILITY LEGEND AND ABBREVIATIONS (TYPICAL ALL FIGURES).

| Sample Loc. | Sample ID | Starting Depth (ft. bgs) | SOR <sub>net</sub> | Sample Loc. | Sample ID | Starting Depth (ft. bgs) | SOR <sub>net</sub> | Sample Loc. | Sample ID | Starting Depth (ft. bgs) | SOR <sub>net</sub> | Sample Loc. | Sample ID | Starting Depth (ft. bgs) | SOR <sub>net</sub> |
|-------------|-----------|--------------------------|--------------------|-------------|-----------|--------------------------|--------------------|-------------|-----------|--------------------------|--------------------|-------------|-----------|--------------------------|--------------------|
| E2250N1846  | N/A       | N/A                      | 18.56              | HTZ00159    | HTZ00159  | 0.0                      | 1.11               | SLD06220    | SLD06220  | 0.0                      | 1.44               | SLD06220    | SLD06220  | 0.0                      | 1.44               |
| E2250N1875  | N/A       | N/A                      | 1.46               | HTZ00160    | HTZ00160  | 1.0                      | 1.81               | SLD06226    | SLD06226  | 0.0                      | 1.72               | SLD06226    | SLD06226  | 0.0                      | 1.72               |
| E2300N1863  | N/A       | N/A                      | 1.95               | HTZ00164    | HTZ00164  | 0.0                      | 1.05               | SLD06230    | SLD06230  | 0.0                      | 1.01               | SLD06230    | SLD06230  | 0.0                      | 1.01               |
| E2350N1875  | N/A       | N/A                      | 1.25               | HTZ00266    | HTZ00266  | 0.0                      | 2.50               | SLD06231    | SLD06231  | 0.0                      | 1.02               | SLD06231    | SLD06231  | 0.0                      | 1.02               |
| E2350N1876  | N/A       | N/A                      | 3.71               | HTZ00267    | HTZ00267  | 0.0                      | 1.62               | SLD70096    | SLD70096  | 0.0                      | 1.55               | SLD70096    | SLD70096  | 0.0                      | 1.55               |
| E2362N1943  | N/A       | N/A                      | 1.27               | HTZ00268    | HTZ00268  | 0.0                      | 1.88               | SLD70102    | SLD70102  | 0.5                      | 1.03               | SLD70102    | SLD70102  | 0.5                      | 1.03               |
| E2394N1944  | N/A       | N/A                      | 5.06               | HTZ66267    | HTZ66267  | 0.0                      | 1.13               | SLD72827    | SLD72827  | 0.0                      | 1.17               | SLD72827    | SLD72827  | 0.0                      | 1.17               |
|             | N/A       | N/A                      | 1.44               | HTZ66271    | HTZ66271  | 0.0                      | 1.15               |             |           |                          |                    |             |           |                          |                    |
| E2400N2000  | N/A       | N/A                      | 2.22               | HTZ66280    | HTZ66280  | 0.0                      | 1.11               |             |           |                          |                    |             |           |                          |                    |
| E2500N1863  | N/A       | N/A                      | 6.36               | HTZ66299    | HTZ66299  | 0.5                      | 4.09               |             |           |                          |                    |             |           |                          |                    |
| E2600N1863  | N/A       | N/A                      | 4.41               | HTZ66305    | HTZ66305  | 0.0                      | 2.36               |             |           |                          |                    |             |           |                          |                    |
| E2700N1863  | N/A       | N/A                      | 1.18               | HTZ66322    | HTZ66322  | 0.0                      | 3.78               |             |           |                          |                    |             |           |                          |                    |
| E2900N1860  | N/A       | N/A                      | 1.65               | HTZ66323    | HTZ66323  | 0.5                      | 1.63               |             |           |                          |                    |             |           |                          |                    |
| E2900N1875  | N/A       | N/A                      | 1.97               | HTZ69417    | HTZ69417  | 0.0                      | 99.77              |             |           |                          |                    |             |           |                          |                    |
| HTZ00157    | HTZ00157  | 0.0                      | 3.53               | HTZ69418    | HTZ69418  | 0.0                      | 793.48             |             |           |                          |                    |             |           |                          |                    |



| Revisions |                      |         |          |
|-----------|----------------------|---------|----------|
| Symbol    | Descriptions         | Date    | Approved |
| 1         | ISSUED FOR REV 1 PDR | 8/10/06 | KB       |

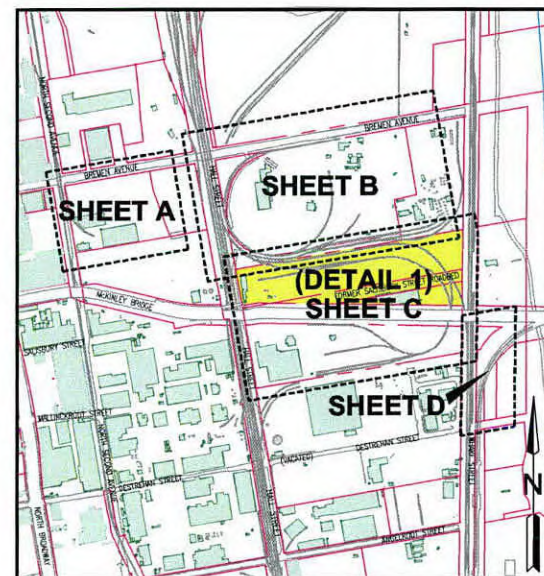
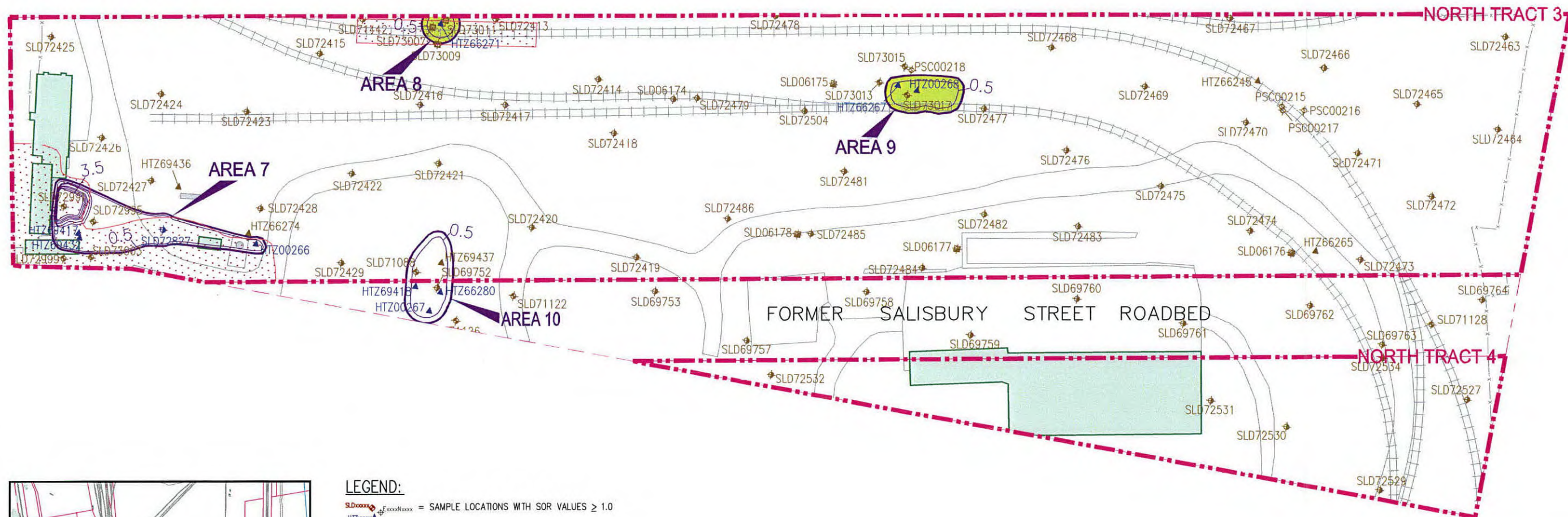
U.S. ARMY CORPS OF ENGINEERS  
KANSAS CITY DISTRICT (CENWK)  
ST. LOUIS DISTRICT (CEMVS)

|                            |                                                                                                                                                  |                        |                  |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------|
| Designed by:<br>B. Eberlin | ESTIMATED EXTENT OF CONTAMINATION MAP<br>PSC METALS VICINITY PROPERTY (N. TRACT 3&4, S. TRACT)<br>ST. LOUIS DOWNTOWN SITE<br>ST. LOUIS, MISSOURI |                        |                  |
| Drawn by:<br>M. Peake      | Scale:<br>AS SHOWN                                                                                                                               | Figure -<br>Sheet No.: | Spec No.:        |
| Checked by:<br>K. Beach    | Date:<br>8/10/06                                                                                                                                 | 4-C                    | Contract No.:    |
| Approved by:<br>B. Fox     | Drawing File:<br>845843-B104.dwg                                                                                                                 |                        | DACW41-98-D-9006 |



845843-B104  
Drawing File:  
Office STL

| Sample Loc. | Sample ID | Starting Depth (ft. BGS) | SOR <sub>net</sub> |
|-------------|-----------|--------------------------|--------------------|
| HTZ00266    | HTZ00266  | 0.0                      | 2.50               |
| HTZ00267    | HTZ00267  | 0.0                      | 1.62               |
| HTZ00268    | HTZ00268  | 0.0                      | 1.88               |
| HTZ66267    | HTZ66267  | 0.0                      | 1.13               |
| HTZ66271    | HTZ66271  | 0.0                      | 1.15               |
| HTZ66280    | HTZ66280  | 0.0                      | 1.11               |
| HTZ69417    | HTZ69417  | 0.0                      | 99.77              |
| HTZ69418    | HTZ69418  | 0.0                      | 793.48             |
| HTZ69432    | HTZ69432  | 0.0                      | 115.75             |
| SLD72827    | SLD72827  | 0.0                      | 1.17               |

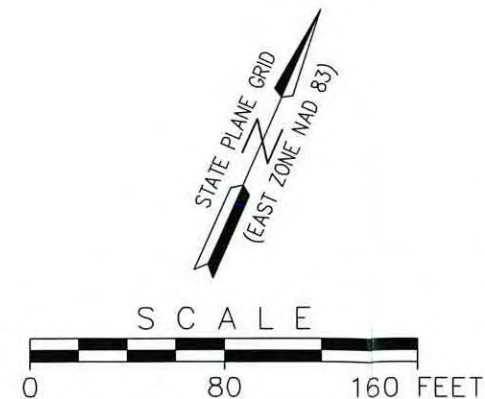


LEGEND:

- SLDxxxxx = SAMPLE LOCATIONS WITH SOR VALUES  $\geq 1.0$
- HTZxxxxx = SAMPLE LOCATIONS WITH SOR VALUES  $< 1.0$
- HORIZONTAL LIMITS OF ESTIMATED DEPTH CONTOUR (FT BGS)
- 0.5- ESTIMATED MAXIMUM RADIOLOGICAL CONTAMINATION DEPTH CONTOUR (FT BGS)
- 1.0--- ESTIMATED CONTOUR OUTSIDE PSC METALS BOUNDARY (FT BGS)
- AREA IDENTIFIED FOR ADDITIONAL SAMPLING IN ACCORDANCE WITH THE FSP (TYPICAL)
- AREA OF HISTORICAL/GEOLOGICAL INTEREST (TYPICAL)
- AREA PREVIOUSLY REMEDIATED (TYPICAL)

GENERAL NOTE:

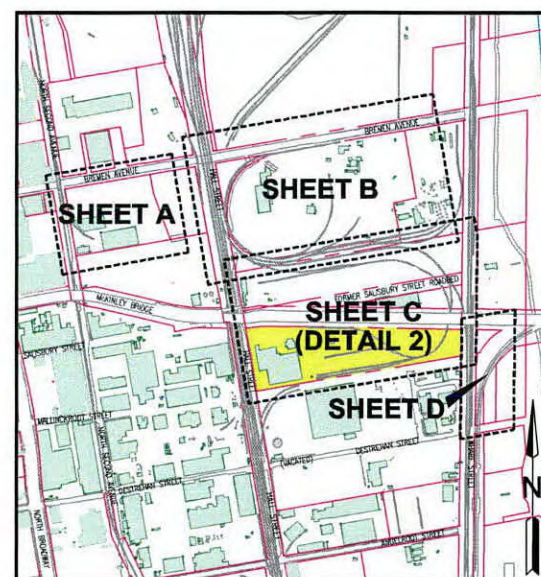
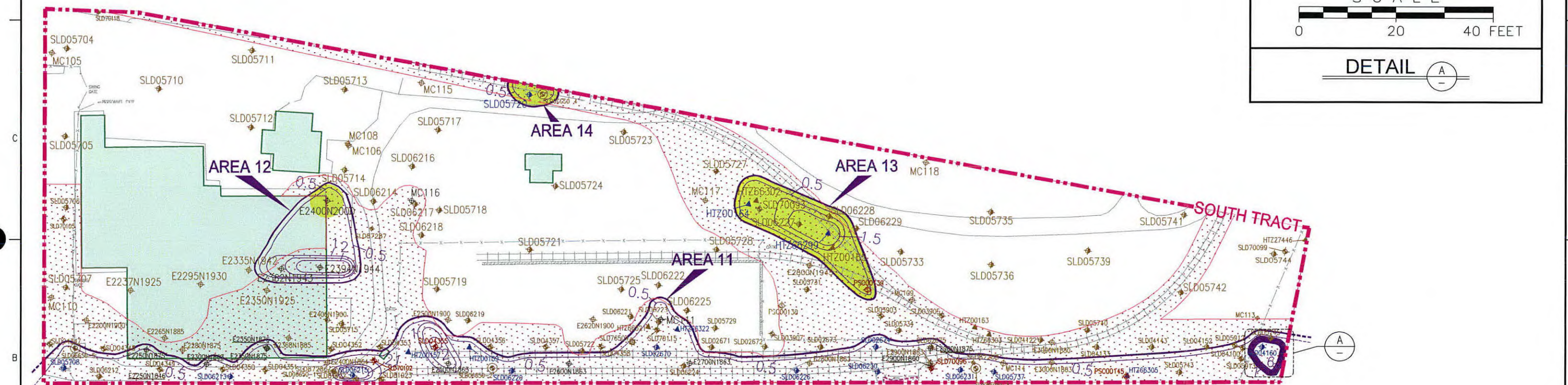
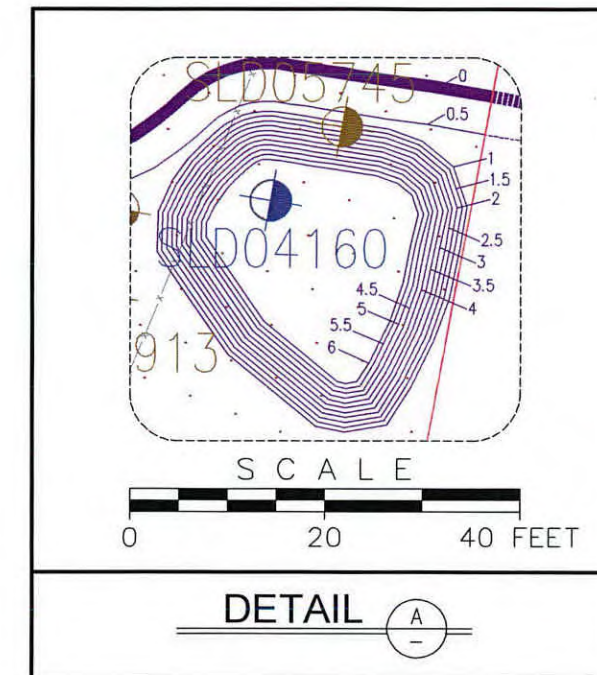
SEE COVER SHEET (FIGURE 1) FOR GENERAL AND EXISTING UTILITY LEGEND AND ABBREVIATIONS (TYPICAL ALL FIGURES).



| Revisions                        |                       |                                                                                                  |                                                     |
|----------------------------------|-----------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| Symbol                           | Descriptions          | Date                                                                                             | Approved                                            |
| 1                                | ISSUED FOR REV 1 PDIR | 8/10/06                                                                                          | KB                                                  |
|                                  |                       |                                                                                                  |                                                     |
|                                  |                       |                                                                                                  |                                                     |
|                                  |                       |                                                                                                  |                                                     |
| Designed by:<br>B. Eberlin       |                       | ESTIMATED EXTENT OF CONTAMINATION MAP                                                            |                                                     |
| Drawn by:<br>M. Peake            |                       | PSC METALS VICINITY PROPERTY (NORTH TRACT 3&4)<br>ST. LOUIS DOWNTOWN SITE<br>ST. LOUIS, MISSOURI |                                                     |
| Checked by:<br>K. Beach          |                       | Scale:<br>AS SHOWN                                                                               | Figure -<br>Sheet No.:<br>DETAIL 1                  |
| Approved by:<br>B. Fox           |                       | Date:<br>8/10/06                                                                                 | Spec No.<br>Contract No.<br>4-C<br>DACW41-98-D-9006 |
| Drawing File:<br>845843-B104.dwg |                       |                                                                                                  |                                                     |



| Sample Loc. | Sample ID | Starting Depth (ft bgs) | SOR <sub>net</sub> | Sample Loc. | Sample ID | Starting Depth (ft bgs) | SOR <sub>net</sub> | Sample Loc. | Sample ID | Starting Depth (ft bgs) | SOR <sub>net</sub> |
|-------------|-----------|-------------------------|--------------------|-------------|-----------|-------------------------|--------------------|-------------|-----------|-------------------------|--------------------|
| E2250N1846  | N/A       | N/A                     | 18.56              | HTZ00159    | HTZ00159  | 0.0                     | 1.11               | SLD05708    | SLD05708  | 0.0                     | 1.35               |
| E2250N1875  | N/A       | N/A                     | 1.46               |             | HTZ00160  | 1.0                     | 1.81               | SLD05720    | SLD05720  | 0.0                     | 1.24               |
| E2300N1863  | N/A       | N/A                     | 1.95               | HTZ00164    | HTZ00164  | 0.0                     | 1.05               | SLD05737    | SLD05737  | 0.0                     | 1.21               |
| E2350N1875  | N/A       | N/A                     | 1.25               | HTZ66299    | HTZ66300  | 0.5                     | 4.09               | SLD06213    | SLD06213  | 0.0                     | 1.82               |
| E2350N1876  | N/A       | N/A                     | 3.71               | HTZ66305    | HTZ66305  | 0.0                     | 2.36               | SLD06215    | SLD06215  | 0.0                     | 1.28               |
| E2362N1943  | N/A       | N/A                     | 1.27               | HTZ66322    | HTZ66322  | 0.0                     | 3.78               |             | SLD06240  | 1.5                     | 1.08               |
| E2394N1944  | N/A       | N/A                     | 5.06               |             | HTZ66323  | 0.5                     | 1.63               | SLD06220    | SLD06220  | 0.0                     | 1.44               |
|             | N/A       | N/A                     | 1.44               | MC111       | N/A       | N/A                     | 1.85               | SLD06226    | SLD06226  | 0.0                     | 1.72               |
| E2400N2000  | N/A       | N/A                     | 2.22               | MC116       | N/A       | 0.0                     | 1.31               | SLD06230    | SLD06230  | 0.0                     | 1.01               |
| E2500N1863  | N/A       | N/A                     | 6.36               | PSC00139    | PSC00139  | 0.0                     | 1.18               | SLD06231    | SLD06231  | 0.0                     | 1.02               |
| E2600N1863  | N/A       | N/A                     | 4.41               | PSC00145    | PSC00145  | 0.0                     | 2.18               | SLD70096    | SLD70096  | 0.0                     | 1.55               |
| E2700N1863  | N/A       | N/A                     | 1.18               | SLD02670    | SLD02670  | 0.0                     | 1.26               | SLD70102    | SLD70103  | 0.5                     | 1.03               |
| E2900N1860  | N/A       | N/A                     | 1.65               | SLD02674    | SLD02674  | 0.0                     | 2.00               |             |           |                         |                    |
| E2900N1875  | N/A       | N/A                     | 1.97               | SLD04160    | SLD04160  | 0.3                     | 1.69               |             |           |                         |                    |
| HTZ00157    | HTZ00157  | 0.0                     | 3.53               | SLD04355    | SLD04355  | 1.6                     | 3.81               |             |           |                         |                    |

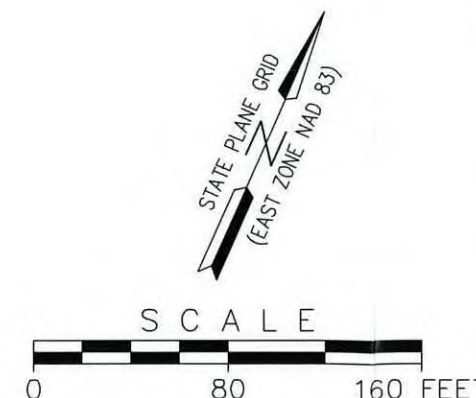


LEGEND:

-   = SAMPLE LOCATIONS WITH SOR VALUES  $\geq$  1.0
-   = SAMPLE LOCATIONS WITH SOR VALUES  $<$  1.0
-   = SAMPLE LOCATIONS WITH SOR VALUES  $<$  1.0
-   = SAMPLE LOCATIONS WITH SOR VALUES  $<$  1.0
- 0.5 — ESTIMATED MAXIMUM RADIOLOGICAL CONTAMINATION DEPTH CONTOUR (FT BGS)
- 1.0 --- ESTIMATED CONTOUR OUTSIDE PSC METALS BOUNDARY (FT BGS)
-  AREA IDENTIFIED FOR ADDITIONAL SAMPLING IN ACCORDANCE WITH THE FSSP (TYPICAL)
-  AREA OF HISTORICAL/GEOLOGICAL INTEREST (TYPICAL)
-  AREA PREVIOUSLY REMEDIATED (TYPICAL)

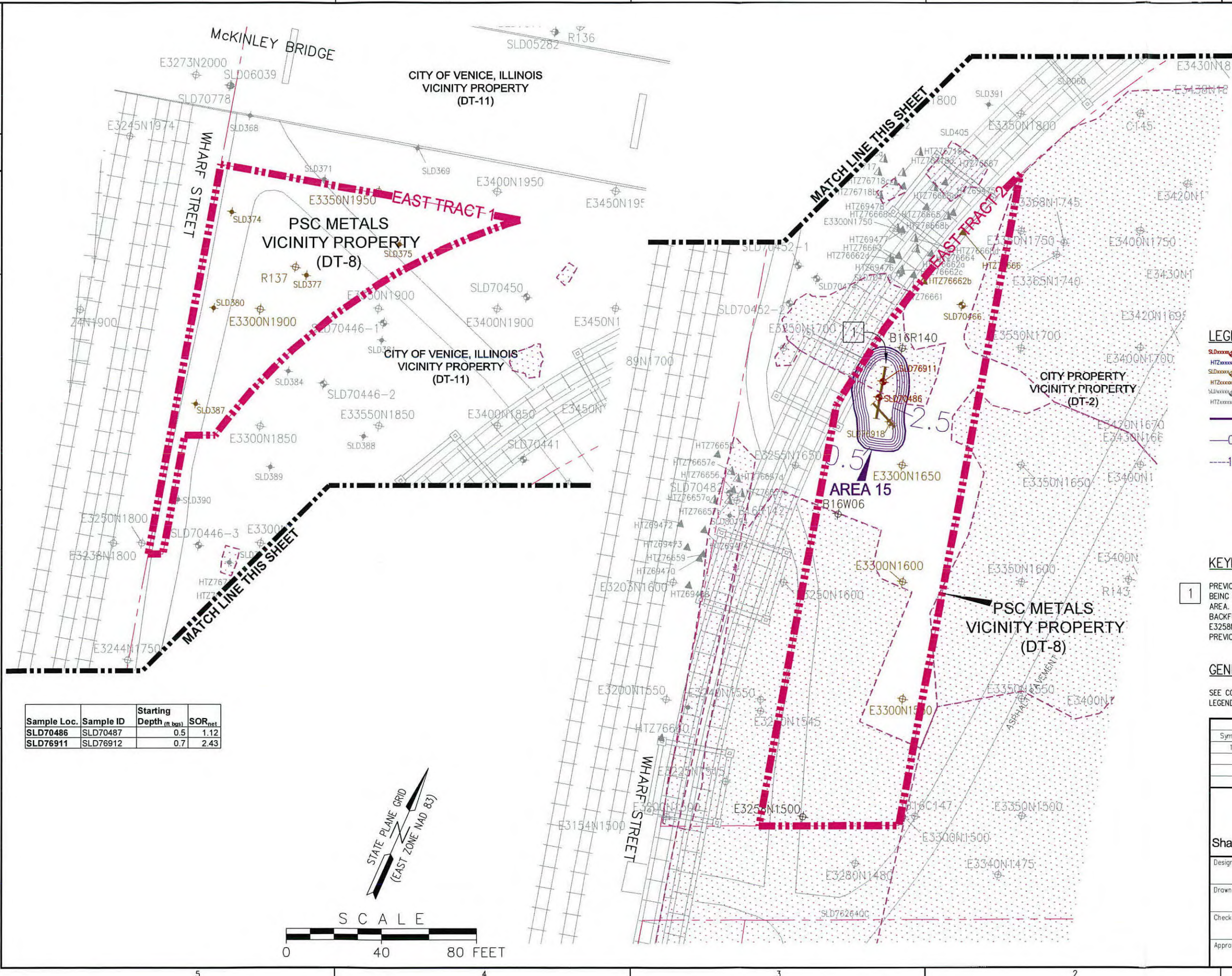
GENERAL NOTE:

SEE COVER SHEET (FIGURE 1) FOR GENERAL AND EXISTING UTILITY  
LEGEND AND ABBREVIATIONS (TYPICAL ALL FIGURES).

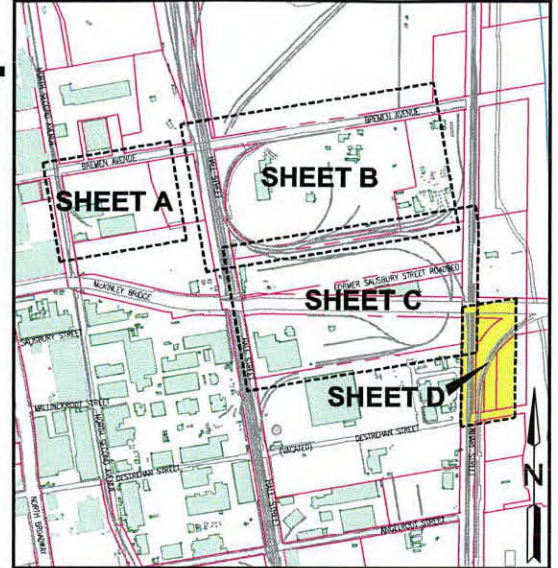
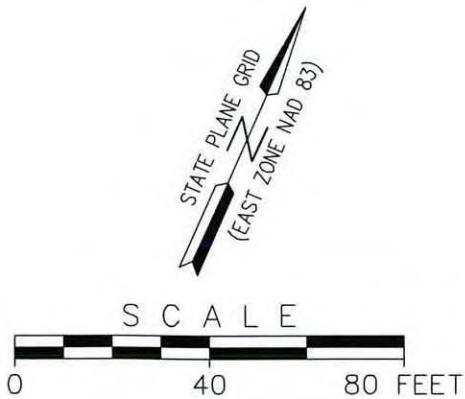


|                                                                                                                          |                       | Revisions                                                                                                                                                                                                                                                                 |                                             |
|--------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| Symbol                                                                                                                   | Descriptions          | Date                                                                                                                                                                                                                                                                      | Approved                                    |
| 1                                                                                                                        | ISSUED FOR REV 1 PDIR | 8/10/06                                                                                                                                                                                                                                                                   | KB                                          |
|                                                                                                                          |                       |                                                                                                                                                                                                                                                                           |                                             |
|                                                                                                                          |                       |                                                                                                                                                                                                                                                                           |                                             |
| <br><b>Shaw Environmental, Inc.</b> |                       | <br> U.S. ARMY CORPS OF ENGINEERS<br>KANSAS CITY DISTRICT (CENWK)<br>ST. LOUIS DISTRICT (CEMVS) |                                             |
| Designed by:<br><b>B. Eberlin</b>                                                                                        |                       | <b>ESTIMATED EXTENT OF CONTAMINATION MAP</b><br><br>PSC METALS MCINITY PROPERTY (SOUTH TRACT)<br>ST. LOUIS DOWNTOWN SITE<br>ST. LOUIS, MISSOURI                                                                                                                           |                                             |
| Drawn by:<br><b>M. Peake</b>                                                                                             |                       |                                                                                                                                                                                                                                                                           |                                             |
| Checked by:<br><b>K. Beach</b>                                                                                           |                       | Scale:<br><b>AS SHOWN</b>                                                                                                                                                                                                                                                 | Figure —<br>Sheet No.:<br><br><b>4-C</b>    |
| Approved by:<br><b>B. Fox</b>                                                                                            |                       | Date:<br><b>8/10/06</b>                                                                                                                                                                                                                                                   |                                             |
|                                                                                                                          |                       | Drawing<br>File: <b>845843-B104.dwg</b>                                                                                                                                                                                                                                   | Contract No.<br><br><b>DACW41-98-D-9006</b> |





| Sample Loc. | Sample ID | Starting Depth (ft bgs) | SOR <sub>net</sub> |
|-------------|-----------|-------------------------|--------------------|
| SLD70486    | SLD70487  | 0.5                     | 1.12               |
| SLD76911    | SLD76912  | 0.7                     | 2.43               |



KEY PLAN

LEGEND:

- SLDxxxxx = SAMPLE LOCATIONS WITH SOR VALUES  $\geq 1.0$
- HTZxxxxx = SAMPLE LOCATIONS WITH SOR VALUES  $< 1.0$
- SLDxxxxx = SAMPLE LOCATIONS (OUTSIDE OF SUBJECT PROPERTY)
- HTZxxxxx = SAMPLE LOCATIONS (OUTSIDE OF SUBJECT PROPERTY)
- HORIZONTAL LIMITS OF ESTIMATED DEPTH CONTOUR (FT BGS)
- 0.5— ESTIMATED MAXIMUM RADIOLOGICAL CONTAMINATION DEPTH CONTOUR (FT BGS)
- 1.0— ESTIMATED CONTOUR OUTSIDE PSC METALS BOUNDARY (FT BGS)
- AREA IDENTIFIED FOR ADDITIONAL SAMPLING IN ACCORDANCE WITH THE FSSP (TYPICAL)
- AREA OF HISTORICAL/GEOLOGICAL INTEREST (TYPICAL)
- AREA PREVIOUSLY REMEDIATED (TYPICAL)

KEYED NOTE:

1 PREVIOUS REMEDIATION OF THIS AREA RESULTED IN CLEAN BACKFILL BEING PLACED OVER AND AROUND THE NORTHERN PORTION OF THE AREA. CONTAMINATION IS ESTIMATED TO EXIST BELOW THE CLEAN BACKFILL. HISTORICAL SAMPLE LOCATIONS B16R140, B16W06 AND E3258N1500 HAD AN SOR NET VALUE  $\geq 1.0$ , BUT HAVE BEEN PREVIOUSLY REMEDIATED.

GENERAL NOTE:

SEE COVER SHEET (FIGURE 1) FOR GENERAL AND EXISTING UTILITY LEGEND AND ABBREVIATIONS (TYPICAL ALL FIGURES).

| Revisions |                       |         |          |
|-----------|-----------------------|---------|----------|
| Symbol    | Descriptions          | Date    | Approved |
| 1         | ISSUED FOR REV 1 PDIR | 8/10/06 | KB       |

Shaw Environmental, Inc.

U.S. ARMY CORPS OF ENGINEERS  
KANSAS CITY DISTRICT (CENWK)  
ST. LOUIS DISTRICT (CEMVS)

|                            |                                                                                                                                          |                        |                  |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------|
| Designed by:<br>B. Eberlin | ESTIMATED EXTENT OF CONTAMINATION MAP<br>PSC METALS VICINITY PROPERTY (EAST TRACT 1&2)<br>ST. LOUIS DOWNTOWN SITE<br>ST. LOUIS, MISSOURI |                        |                  |
| Drawn by:<br>M. Peake      | Scale:<br>AS SHOWN                                                                                                                       | Figure -<br>Sheet No.: | Spec No.:        |
| Checked by:<br>K. Beach    | Date:<br>8/10/06                                                                                                                         | 4-D                    | Contract No.:    |
| Approved by:<br>B. Fox     | Drawing File:<br>845843-B104.dwg                                                                                                         |                        | DACW41-98-D-9006 |



***Appendix A***

DT-8 Boring Logs

## Appendix A – DT-8 Boring Logs

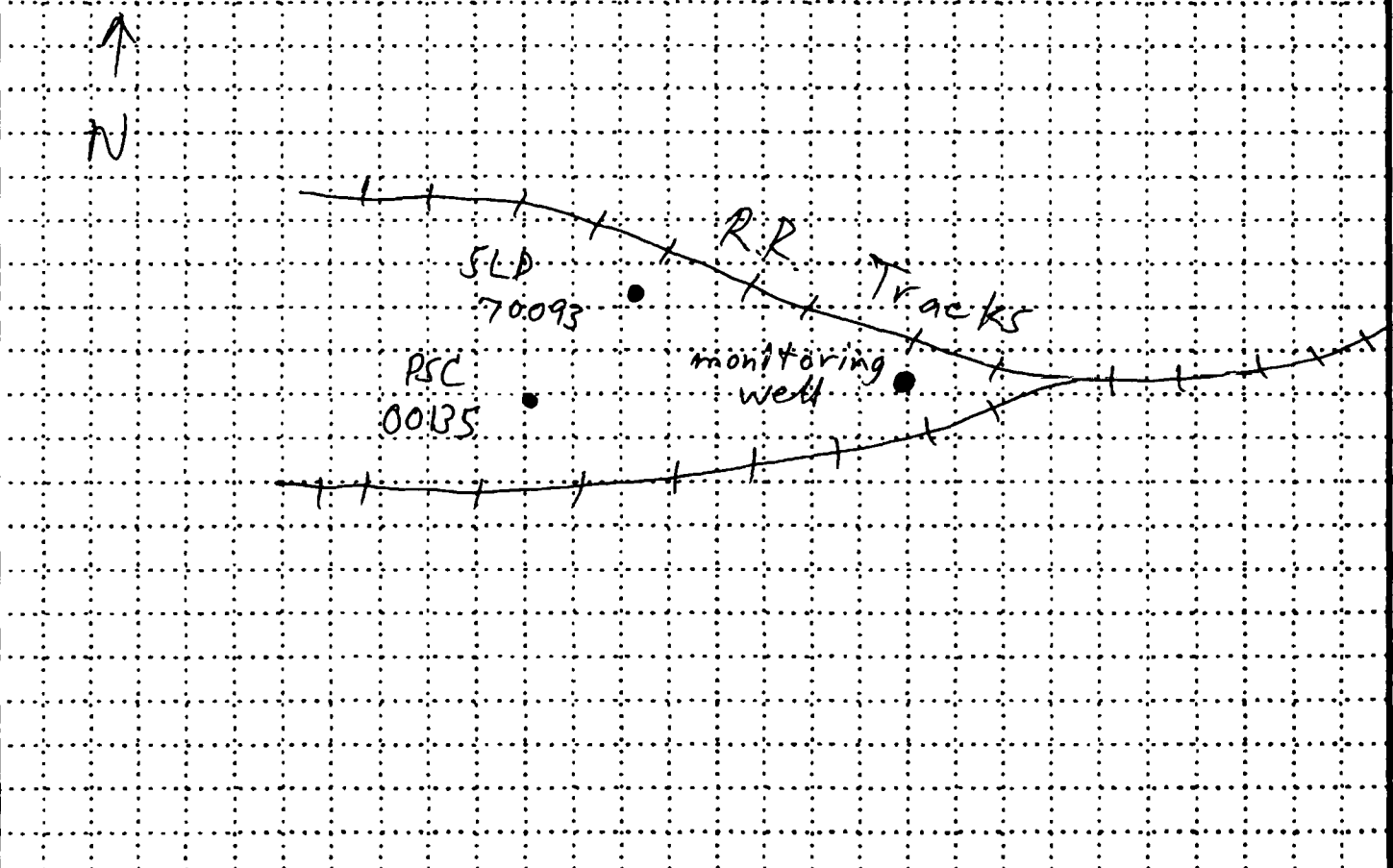
|          |         |           |               |            |                     |
|----------|---------|-----------|---------------|------------|---------------------|
| PSC00135 | SLD5718 | SLD6181   | SLD72152      | SLD72428   | SLD72943            |
| PSC00138 | SLD5719 | SLD6182   | SLD72153      | SLD72428B  | SLD72947QC          |
| PSC00139 | SLD5720 | SLD6212   | SLD72154      | SLD72429   | SLD72947QC(b)       |
| PSC00142 | SLD5721 | SLD6213   | SLD72154B     | SLD72430   | SLD72951            |
| PSC00145 | SLD5722 | SLD6215   | SLD72155      | SLD72463QC | SLD72955            |
| PSC00148 | SLD5723 | SLD6216   | SLD72156      | SLD72464   | SLD72959            |
| SLD2670  | SLD5724 | SLD6217   | SLD72157      | SLD72465   | SLD72963            |
| SLD2671  | SLD5725 | SLD6218   | SLD72159      | SLD72465B  | SLD72967QC          |
| SLD2672  | SLD5726 | SLD6219   | SLD72160      | SLD72466   | SLD72971            |
| SLD2673  | SLD5727 | SLD6220   | SLD72160B     | SLD72467QC | SLD72975            |
| SLD2674  | SLD5728 | SLD6221   | SLD72161      | SLD72468   | SLD72979            |
| SLD2675  | SLD5729 | SLD6222   | SLD72162      | SLD72469   | SLD72983            |
| SLD3903  | SLD5730 | SLD6223   | SLD72163      | SLD72470   | SLD72987QC          |
| SLD3905  | SLD5731 | SLD6224   | SLD72164      | SLD72471   | SLD72987QC(b)       |
| SLD3907  | SLD5732 | SLD6225   | SLD72165QC(a) | SLD72472   | SLD72991            |
| SLD4122  | SLD5733 | SLD6226   | SLD72165QC(b) | SLD72473   | SLD72995            |
| SLD4133  | SLD5734 | SLD6227   | SLD72210      | SLD72474   | SLD72999            |
| SLD4143  | SLD5735 | SLD6228   | SLD72210B     | SLD72475   | SLD73003            |
| SLD4152  | SLD5736 | SLD6229   | SLD72211      | SLD72476   | SLD73007QC          |
| SLD4160  | SLD5737 | SLD6230   | SLD72211B     | SLD72477   | SLD73007QC(b)       |
| SLD4347  | SLD5738 | SLD6231   | SLD72212      | SLD72478   | SLD73009            |
| SLD4348  | SLD5739 | SLD70093  | SLD72213      | SLD72479   | SLD73011            |
| SLD4349  | SLD5740 | SLD70096  | SLD72397      | SLD72481   | SLD73013            |
| SLD4350  | SLD5741 | SLD70099  | SLD72398      | SLD72482QC | SLD73015            |
| SLD4351  | SLD5742 | SLD70102  | SLD72400      | SLD72483   | SLD73017            |
| SLD4352  | SLD5743 | SLD70105  | SLD72400B     | SLD72484   | SLD75708            |
| SLD4353  | SLD5744 | SLD70115  | SLD72413      | SLD72484B  | SLD75712            |
| SLD4355  | SLD5745 | SLD70118  | SLD72414      | SLD72485   | SLD75716            |
| SLD4356  | SLD6164 | SLD70466  | SLD72415      | SLD72486   | SLD75720            |
| SLD4357  | SLD6165 | SLD70486  | SLD72416      | SLD72504QC | SLD75723            |
| SLD4358  | SLD6166 | SLD71088  | SLD72417      | SLD72527   | SLD75726            |
| SLD5704  | SLD6167 | SLD72139  | SLD72417B     | SLD72529QC | SLD75728            |
| SLD5705  | SLD6168 | SLD72140  | SLD72417QC    | SLD72530   | SLD76911 (test pit) |
| SLD5706  | SLD6169 | SLD72141  | SLD72418      | SLD72530B  | SLD76942            |
| SLD5707  | SLD6170 | SLD72142  | SLD72419      | SLD72531   | SLD76943            |
| SLD5708  | SLD6171 | SLD72143  | SLD72420      | SLD72532   | SLD87283            |
| SLD5709  | SLD6172 | SLD72144  | SLD72420B     | SLD72534   | SLD87284            |
| SLD5710  | SLD6173 | SLD72145  | SLD72421      | SLD72534B  | SLD87285            |
| SLD5711  | SLD6174 | SLD72146  | SLD72422      | SLD72792   | SLD87286            |
| SLD5712  | SLD6175 | SLD72147  | SLD72423      | SLD72792B  | SLD87287            |
| SLD5713  | SLD6176 | SLD72148  | SLD72424      | SLD72806   | SLD87288            |
| SLD5714  | SLD6177 | SLD72149  | SLD72424B     | SLD72813   | SLD87322            |
| SLD5715  | SLD6178 | SLD72150  | SLD72425      | SLD72820   |                     |
| SLD5716  | SLD6179 | SLD72150B | SLD72426QC    | SLD72827   |                     |
| SLD5717  | SLD6180 | SLD72151  | SLD72427      | SLD72939   |                     |



| HTRW DRILLING LOG                                                |  | DISTRICT    | St. Louis |                                                              | PSC-00135 | HOLE NUMBER                    | PSC 00135 1/4/02 |                            |
|------------------------------------------------------------------|--|-------------|-----------|--------------------------------------------------------------|-----------|--------------------------------|------------------|----------------------------|
| 1. COMPANY NAME                                                  |  | Shaw, E & I |           | 2. DRILLING SUBCONTRACTOR                                    |           | Layne - Western                |                  | SHEET 1 OF 2               |
| 3. PROJECT                                                       |  |             |           | 4. LOCATION                                                  |           |                                |                  |                            |
| FUSRAP / SLDS                                                    |  |             |           | PSC Metals                                                   |           |                                |                  |                            |
| 5. NAME OF DRILLER                                               |  |             |           | 6. MANUFACTURER'S DESIGNATION OF DRILL                       |           |                                |                  |                            |
| Charles Riffle                                                   |  |             |           | CME 75                                                       |           |                                |                  |                            |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT            |  |             |           | 8. HOLE LOCATION                                             |           |                                |                  |                            |
| CME 75 using 4 1/4" Hollow Stem Auger and 3 in x 2" split spoon. |  |             |           |                                                              |           |                                |                  |                            |
| NaF: 4ml 75-059                                                  |  |             |           | 9. SURFACE ELEVATION                                         |           |                                |                  |                            |
| PTD                                                              |  |             |           | 10. DATE STARTED                                             |           |                                |                  |                            |
| BKG: 6206                                                        |  |             |           | 5-22-02                                                      |           |                                |                  |                            |
| 12. OVERBURDEN THICKNESS                                         |  |             |           | 15. DEPTH GROUNDWATER ENCOUNTERED                            |           |                                |                  |                            |
| N/A                                                              |  |             |           | N/A                                                          |           |                                |                  |                            |
| 13. DEPTH DRILLED INTO ROCK                                      |  |             |           | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED |           |                                |                  |                            |
| N/A                                                              |  |             |           | N/A                                                          |           |                                |                  |                            |
| 14. TOTAL DEPTH OF HOLE                                          |  |             |           | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)                 |           |                                |                  |                            |
| 4.0' BGS                                                         |  |             |           | N/A                                                          |           |                                |                  |                            |
| 18. GEOTECHNICAL SAMPLES                                         |  | DISTURBED   |           | UNDISTURBED                                                  |           | 19. TOTAL NUMBER OF CORE BOXES |                  |                            |
| 0                                                                |  | 0           |           | 0                                                            |           | 0                              |                  |                            |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                |  | VOC         |           | METALS                                                       |           | OTHER (SPECIFY)                |                  | 21. TOTAL CORE RECOVERY    |
| 0                                                                |  | 0           |           | 0                                                            |           | RAP                            |                  | 0%                         |
| 22. DISPOSITION OF HOLE                                          |  | BACKFILLED  |           | MONITORING WELL                                              |           | OTHER (SPECIFY)                |                  | 23. SIGNATURE OF INSPECTOR |
| 0                                                                |  | yes         |           | 0                                                            |           | 0                              |                  | Phillip M. Statten         |

LOCATION SKETCH/COMMENTS

SCALE: Not to Scale



|         |               |          |           |
|---------|---------------|----------|-----------|
| PROJECT | FUSRAP / SLDS | HOLE NO. | PSC 00135 |
|---------|---------------|----------|-----------|

Figure 4-2. HTRW Drilling Log

1 Nov 98

## HTRW DRILLING LOG (CONTINUATION SHEET)

| PROJECT     |       | INSPECTOR                                                                                             |                  | SHEET                  |             |                                                                                                                                                                                                                                                                                                                                                |
|-------------|-------|-------------------------------------------------------------------------------------------------------|------------------|------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FUSRAP/SLDS |       | Phillip Statter                                                                                       |                  | 2 of 2                 |             |                                                                                                                                                                                                                                                                                                                                                |
| CHL         | DEPTH | DESCRIPTION OF MATERIALS                                                                              | FIELD CORRECTION | ANALYTICAL SAMPLE NO.  | ALPHA COUNT | REMARKS                                                                                                                                                                                                                                                                                                                                        |
| SP          |       | fine sand w/ few silt, med. dense, poorly graded, dry, lt. brn., few cinders, slag and glass.         | 7000 PID 0.6     | PSC-00135 5-22-02 1045 | 2.1         | 1 min. count 6900                                                                                                                                                                                                                                                                                                                              |
|             | 1     | brick frags.                                                                                          | 5700 0.0         |                        | 91          | 1 min. count 6,200                                                                                                                                                                                                                                                                                                                             |
| SM          |       | silty sand (fine), very dense, poorly graded, dk. brn. to blk., dry, some cinders, trace metal frags. | 5500 -0.0        |                        | 78          | 1 min. count 6,000                                                                                                                                                                                                                                                                                                                             |
|             | 2     |                                                                                                       | 6200 0.0         | PSC 00136 1050         | 41          | 1 min. count 6,600                                                                                                                                                                                                                                                                                                                             |
|             |       |                                                                                                       | 5800 0.0         | PSC 00137 1115         | 26          | 1 min. count 6,700                                                                                                                                                                                                                                                                                                                             |
| CL          |       | brick frags.                                                                                          | 6200 0.0         |                        | 18          | 1 min. count 6,500                                                                                                                                                                                                                                                                                                                             |
|             | 3     | silty clay, very stiff, med. plast., med. to lt. brn., moist, trace med. gravel, trace cinders.       | 5700 0.0         |                        | 20          | 1 min. count 6,600                                                                                                                                                                                                                                                                                                                             |
|             | 4     |                                                                                                       | 5600 0.0         |                        | 15          | 1 min. count 6,500                                                                                                                                                                                                                                                                                                                             |
|             |       | TD: 4.0' BGS<br>5-22-02<br>1100                                                                       |                  |                        |             | Background:<br>NaI: 6,200<br>PID: 0.0<br><br>Soil cuttings in Drum #1.<br><br>Backfilled boring w/ 1/2 bags of Bent chips.<br>Covered<br>Native soil covered last 6" of boring.<br>Covered last 6" of boring w/ native soil.<br><br>No augers used on boring. 2' Split spoons were driven to 4.0' BGS. Boring was measured to ensure accuracy. |

FUSRAP/SLDS

PSC 00135



| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                        |  |                                               |  | DISTRICT <u>St. Louis</u>                                               |  | PSC-00138                                                           |                                   | HOLE NUMBER: <u>7/11/01</u><br>PSC-00138                      |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------|--|-------------------------------------------------------------------------|--|---------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------------|--|
| 1. COMPANY NAME <u>Shaw, E &amp; I</u>                                                                                                                                                                                                                                                                                                   |  |                                               |  | 2. DRILLING SUBCONTRACTOR <u>Layne - Western</u>                        |  |                                                                     |                                   | SHEET <u>1</u> OF <u>2</u>                                    |  |
| 3. PROJECT <u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                            |  |                                               |  | 4. LOCATION <u>PSC Metals</u>                                           |  |                                                                     |                                   |                                                               |  |
| 5. NAME OF DRILLER <u>Charles Riffle</u>                                                                                                                                                                                                                                                                                                 |  |                                               |  | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>CME 75</u>                    |  |                                                                     |                                   |                                                               |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>CME 75 using 4 1/2" Hollow Stem Augers and 3 in. X 3' split casing</u>                                                                                                                                                                                                       |  |                                               |  | 8. HOLE LOCATION <u>PSC Metals</u>                                      |  |                                                                     |                                   |                                                               |  |
| <u>Not Lub 172059</u>                                                                                                                                                                                                                                                                                                                    |  |                                               |  | 9. SURFACE ELEVATION                                                    |  |                                                                     |                                   |                                                               |  |
| <u>cal. done date: 12-13-01</u>                                                                                                                                                                                                                                                                                                          |  |                                               |  | 10. DATE STARTED <u>5-22-02</u>                                         |  |                                                                     | 11. DATE COMPLETED <u>5-22-02</u> |                                                               |  |
| 12. OVERBURDEN THICKNESS <u>N/A</u>                                                                                                                                                                                                                                                                                                      |  |                                               |  | 15. DEPTH GROUNDWATER ENCOUNTERED <u>N/A</u>                            |  |                                                                     |                                   |                                                               |  |
| 13. DEPTH DRILLED INTO ROCK <u>N/A</u>                                                                                                                                                                                                                                                                                                   |  |                                               |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u> |  |                                                                     |                                   |                                                               |  |
| 14. TOTAL DEPTH OF HOLE <u>0.5' BGS</u>                                                                                                                                                                                                                                                                                                  |  |                                               |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u>                 |  |                                                                     |                                   |                                                               |  |
| 18. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                 |  | DISTURBED <input checked="" type="checkbox"/> |  | UNDISTURBED <input checked="" type="checkbox"/>                         |  | 19. TOTAL NUMBER OF CORE BRICKS <input checked="" type="checkbox"/> |                                   |                                                               |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                        |  | VOC <input checked="" type="checkbox"/>       |  | METALS <input checked="" type="checkbox"/>                              |  | OTHER (SPECIFY) <input checked="" type="checkbox"/>                 |                                   | OTHER (SPECIFY) <input checked="" type="checkbox"/>           |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                  |  | BAGGED <input checked="" type="checkbox"/>    |  | MONITORING WELL <input checked="" type="checkbox"/>                     |  | OTHER (SPECIFY) <input checked="" type="checkbox"/>                 |                                   | 21. TOTAL CORE RECOVERY <input checked="" type="checkbox"/> % |  |
| 23. SIGNATURE OF INSPECTOR <u>Therese M. Staller</u>                                                                                                                                                                                                                                                                                     |  |                                               |  |                                                                         |  |                                                                     |                                   |                                                               |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                 |  |                                               |  |                                                                         |  |                                                                     |                                   |                                                               |  |
| SCALE: Not to Scale                                                                                                                                                                                                                                                                                                                      |  |                                               |  |                                                                         |  |                                                                     |                                   |                                                               |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; left: 10%;"> <p>↑</p> <p>N</p> </div> <div style="position: absolute; top: 40%; left: 20%;"> <p>RR Tracks</p> <p>monitoring well</p> </div> <div style="position: absolute; top: 70%; left: 50%;"> <p>PSC 00138</p> </div> </div> |  |                                               |  |                                                                         |  |                                                                     |                                   |                                                               |  |
| PROJECT <u>FUSRAP / SLDS</u>                                                                                                                                                                                                                                                                                                             |  |                                               |  |                                                                         |  |                                                                     |                                   | HOLE NO. <u>PSC 00138</u>                                     |  |

EM 1110-1-4000

1 Nov 98

SLD 71166

| HTRW DRILLING LOG (CONTINUATION SHEET) |              |                                                                         |                         |                                                                  |                    |                                                                                 | NAME LOCATION<br>PSC 00138 |
|----------------------------------------|--------------|-------------------------------------------------------------------------|-------------------------|------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------|----------------------------|
| PROJECT<br>FUSRAP / SLDs               |              | INSPECTOR<br>Phillip Statter                                            |                         |                                                                  | SHEET<br>2 OF 3    |                                                                                 |                            |
| ITEM<br>(1)                            | DEPTH<br>(2) | DESCRIPTION OF MATERIALS<br>(3)                                         | FIELD SAMPLE NO.<br>(4) | LABORATORY<br>SAMPLE NO.<br>(5)                                  | ALLOY COUNT<br>(6) | REMARKS<br>(7)                                                                  |                            |
| SM                                     | 0.5          | Silty sand w/ few med.<br>gravel, loose, poorly graded,<br>dk. brn, dry | 5900<br>0.0             | PSC-20138<br>SLD 71166<br>7/1/02<br>PSC 00138<br>5-22-02<br>1630 | N/A                | 6700                                                                            |                            |
|                                        |              |                                                                         |                         |                                                                  |                    | Drill rig<br>hit refusal<br>3 separate<br>times. Hand<br>dug 0.5'<br>w/ trowel. |                            |

FUSRAP / SLDs PSC 00138



Nov 98

6-6-02 Start Time 1000 Finished 1315

| HTRW DRILLING LOG (CONTINUATION SHEET)                                                                                           |              |                                                                                                                                        |                                  |                              |                   |                   | HOLE NUMBER<br>PSC00138 |
|----------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------|-------------------|-------------------|-------------------------|
| PROJECT<br>FUSRAP / SLDS                                                                                                         |              | INSPECTOR<br>Don V. Jones, Recovery                                                                                                    |                                  | NA                           |                   | SHEET<br>1A of 1A |                         |
| ELEV.<br>(1)                                                                                                                     | DEPTH<br>(2) | DESCRIPTION OF MATERIALS<br>(3)                                                                                                        | FIELD SAMPLE NO.<br>(4)          | ANALYTICAL SAMPLE NO.<br>(5) | SOIL COUNT<br>(6) | REMARKS<br>(7)    | DEPTH<br>(8)            |
|                                                                                                                                  | 0.5          | See Pg 2 of Drilling Log For                                                                                                           | PSC00138                         |                              |                   |                   | 0.5                     |
|                                                                                                                                  | 1.0          | Cobbles with sandy silt, brown, dry, base. Cobbles consisted of concrete, slag, limestone, and granite. Few brick and metal.           | 14,700/0.0                       |                              |                   | Backhoe           | 5800                    |
|                                                                                                                                  | 1.5          | Metal pieces, throughout. Encountered one large metal piece (3" thick and 3'x4')                                                       | 13,850/0.0 collected inside hole | PSC00151 1100                |                   |                   | 6400                    |
| ML                                                                                                                               | 2.0          | Clayey Silt, dark brown to black, soft, dry, few woodchips, coal, green speckled material, metal, and ceramic pieces.                  | 12600/0.0 collected in hole      |                              |                   |                   | 6540                    |
| SP                                                                                                                               | 2.5          | Sand, coarse, poorly graded, wet rounded. Few ash, coal, and fine gravel.                                                              | 26,900/0.0 collected inside hole | PSC00152 1130                | 7/11/02           | Used Hand Auger   | 7883                    |
| GP                                                                                                                               | 3.0          | Slag with copper, few coal, trace sand, Black, saturated.                                                                              | 6900/0.0                         |                              |                   |                   | 6982                    |
|                                                                                                                                  | 3.5          | Slag is gravel sized.                                                                                                                  | 6,700/0.0                        |                              |                   |                   | 6944                    |
|                                                                                                                                  | 4.0          | (Note: small amount of water in hole @ 3.0' bss)<br>Clay, brown and gray, med. soft to med. stiff, med plasticity. So wet<br>TD = 4.0' |                                  |                              |                   |                   |                         |
| NAT model #172040<br>cal Date 4/01/03<br>Background 8200<br>Staged excavated soil/debris on plastic sheeting pending analytical. |              |                                                                                                                                        |                                  |                              |                   |                   |                         |

FUSRAP / SLDS

PSC00138

| <b>HTRW DRILLING LOG</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                         | DISTRICT <u>St. Louis</u>                                                  | HOLE NUMBER: <u>00139</u><br><u>PSC-00139</u>    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------|
| 1. COMPANY NAME<br><u>Shaw, E &amp; I</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2. DRILLING SUBCONTRACTOR<br><u>Layne - Western</u>     | SHEET <u>1</u> OF <u>2</u>                                                 |                                                  |
| 3. PROJECT<br><u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4. LOCATION<br><u>PSC Metals</u>                        |                                                                            |                                                  |
| 5. NAME OF DRILLER<br><u>Charles Riffle</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 75</u> |                                                                            |                                                  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>CME 75 using 4 1/4" Hollow Stem Augers</u><br><u>and 3 in. x 1/2" split spoon</u><br><u>Nat: LUD 172059</u><br><u>cal due date: 7-00-03</u><br><u>BKG: 6200 12-13-03</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 8. HOLE LOCATION                                        |                                                                            |                                                  |
| 9. SURFACE ELEVATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                         |                                                                            |                                                  |
| 10. DATE STARTED<br><u>5-22-02</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                         | 11. DATE COMPLETED<br><u>5-22-02</u>                                       |                                                  |
| 12. OVERBURDEN THICKNESS<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                         | 15. DEPTH GROUNDWATER ENCOUNTERED                                          |                                                  |
| 13. DEPTH DRILLED INTO ROCK<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                         | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |                                                  |
| 14. TOTAL DEPTH OF HOLE<br><u>4.0' BGS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                         | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |                                                  |
| 18. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | DISTURBED <input checked="" type="checkbox"/>           | UNDISTURBED <input checked="" type="checkbox"/>                            | 19. TOTAL NUMBER OF CORE BOXES<br><u>0</u>       |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | VOC <input checked="" type="checkbox"/>                 | METALS <input checked="" type="checkbox"/>                                 | OTHER (SPECIFY) <u>RAB</u>                       |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | BACFILLED <input checked="" type="checkbox"/>           | MONITORING WELL <input checked="" type="checkbox"/>                        | 23. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |
| 21. TOTAL CORE RECOVERY % <u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                         |                                                                            |                                                  |
| <div style="display: flex; justify-content: space-between;"> <span>LOCATION SKETCH/COMMENTS</span> <span>SCALE: Not to Scale</span> </div> <div style="height: 300px; border: 1px dotted black; position: relative;"> <div style="position: absolute; top: 10px; left: 10px;"> <p>↑<br/>N</p> </div> <div style="position: absolute; top: 40%; left: 30%;"> <p>RR Tracks</p> </div> <div style="position: absolute; top: 50%; left: 40%;"> <p>monitoring well</p> </div> <div style="position: absolute; top: 60%; left: 30%;"> <p>PSC 00135</p> </div> <div style="position: absolute; top: 70%; left: 50%;"> <p>PSC 00138</p> </div> <div style="position: absolute; top: 60%; right: 10%;"> <p>PSC 00139</p> </div> </div> |                                                         |                                                                            |                                                  |
| PROJECT <u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                         | HOLE NO. <u>00139</u><br><u>PSC-00139</u>                                  |                                                  |



PSC-00139

HOLE NUMBER 00139  
PSC-00139  
SHEET 2 of 2

| HTRW DRILLING LOG (CONTINUATION SHEET) |              |                                                                                        |                                   |                               |                                                                                                                                                                               |                   |
|----------------------------------------|--------------|----------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| PROJECT                                |              | INSPECTOR                                                                              |                                   |                               |                                                                                                                                                                               |                   |
| FUS RAP/SLDS                           |              | Philip Statler                                                                         |                                   |                               |                                                                                                                                                                               |                   |
| CLV<br>(1)                             | DEPTH<br>(2) | DESCRIPTION OF MATERIALS<br>(3)                                                        | FIELD SCREENING<br>RESULTS<br>(4) | RECOVERY<br>PERCENTAGE<br>(5) | ANALYTICAL<br>SAMPLE NO.<br>(6)                                                                                                                                               | ALONG CORE<br>(7) |
| SM                                     | 1            | silty sand (fine) w/ conchoidal, loose, poorly graded, dk. brn. to blk, dry, few slag. | 6900<br>0.0                       | 1.7/2.0                       | PSC 00139<br>5-22-02<br>1345                                                                                                                                                  | 5                 |
|                                        |              |                                                                                        | 6700<br>0.0                       |                               | PSC 00140<br>5-22-02<br>1355                                                                                                                                                  | 9                 |
|                                        |              |                                                                                        | 6100<br>0.0                       |                               |                                                                                                                                                                               | 8                 |
|                                        |              | few med. gravel                                                                        | 6200<br>0.0                       |                               |                                                                                                                                                                               | 5                 |
|                                        | 2            |                                                                                        | 5900<br>0.0                       |                               |                                                                                                                                                                               | 5                 |
| CL                                     | 3            | few bricks                                                                             | 6300<br>0.0                       | 1.4/2.0                       |                                                                                                                                                                               | 10                |
|                                        |              | silty clay, stiff, med. plast., dk. brn. moist, few med. gravel, few brick frags.      | 5800<br>0.0                       |                               | PSC 00141<br>1420                                                                                                                                                             | 5                 |
|                                        |              |                                                                                        | N/A<br>N/A                        | no recovery                   |                                                                                                                                                                               | 5                 |
|                                        | 4            |                                                                                        |                                   |                               |                                                                                                                                                                               | N/A               |
|                                        |              | TD: 4.0' BGS<br>5-22-02<br>1415                                                        |                                   |                               | Back ground<br>Nat: 6,200<br>PTD: 0.0<br>Back-filled<br>boring w/<br>1/2 bag bent.<br>chips. Capped<br>top 6" of<br>boring w/<br>native soil.<br>Soil cuttings<br>in Drum #1. |                   |

FUS RAP/SLDS

PSC-00139 PSC-00139

| <b>HTRW DRILLING LOG</b>                                                                                                                                                                                                  |                                                     | DISTRICT <u>St. Louis</u>                                                  | HOLE NUMBER: <u>PSC 0014</u> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------|------------------------------|
| 1. COMPANY NAME<br><u>Shaw, E &amp; I</u>                                                                                                                                                                                 | 2. DRILLING SUBCONTRACTOR<br><u>Layne - Western</u> |                                                                            | SHEET <u>1</u> OF <u>2</u>   |
| 3. PROJECT<br><u>FUSRAP/SLDS</u>                                                                                                                                                                                          |                                                     | 4. LOCATION<br><u>PSC Metals</u>                                           |                              |
| 5. NAME OF DRILLER<br><u>Charles Riffle</u>                                                                                                                                                                               |                                                     | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 25</u>                    |                              |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>CME 25 using 4 1/2" Hollow Stem Augers and 3in. x 3 Split Spoon</u><br><u>Nat. Lub 154059</u><br><u>Calc due date: 4-12-02</u><br><u>PTD</u> <u>BKG: 6200</u> |                                                     | 8. HOLE LOCATION                                                           |                              |
| 12. OVERBURDEN THICKNESS<br><u>N/A</u>                                                                                                                                                                                    |                                                     | 15. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |                              |
| 13. DEPTH DRILLED INTO ROCK<br><u>N/A</u>                                                                                                                                                                                 |                                                     | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |                              |
| 14. TOTAL DEPTH OF HOLE<br><u>4.0' BGS</u>                                                                                                                                                                                |                                                     | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |                              |
| 18. GEOTECHNICAL SAMPLES<br><input checked="" type="checkbox"/> DISTURBED <input checked="" type="checkbox"/> UNDISTURBED                                                                                                 |                                                     | 19. TOTAL NUMBER OF CORE BOXES<br><u>0</u>                                 |                              |
| 20. SAMPLES FOR CHEMICAL ANALYSIS<br><input checked="" type="checkbox"/> VOC <input checked="" type="checkbox"/> METALS <input checked="" type="checkbox"/> OTHER (SPECIFY) <u>RAP</u>                                    |                                                     | 21. TOTAL CORE RECOVERY %<br><u>0</u>                                      |                              |
| 22. DISPOSITION OF HOLE<br><input checked="" type="checkbox"/> BACKFILLED <input checked="" type="checkbox"/> MONITORING WELL <input checked="" type="checkbox"/> OTHER (SPECIFY)                                         |                                                     | 23. SIGNATURE OF INSPECTOR<br><u>DR. H. H. H. H.</u>                       |                              |
| <div style="display: flex; justify-content: space-between;"> <span>LOCATION SKETCH/COMMENTS</span> <span>SCALE: <u>Not to Scale</u></span> </div> <div style="text-align: center; margin-top: 20px;"> </div>              |                                                     |                                                                            |                              |
| PROJECT<br><u>FUSRAP/SLDS</u>                                                                                                                                                                                             |                                                     | HOLE NO.<br><u>PSC 00142</u>                                               |                              |



Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET)                                                                                                                                    |                                                                                                |                 |                              |             |         |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------|------------------------------|-------------|---------|--|
| PROJECT                                                                                                                                                                   |                                                                                                | INSPECTOR       |                              | HOLE NUMBER |         |  |
| FUS RAP / SLDS                                                                                                                                                            |                                                                                                | Phillip Statler |                              | PSC 00142   |         |  |
| DEPTH (ft)                                                                                                                                                                | DESCRIPTION OF MATERIALS                                                                       | FIELD SAMPLES   | ANALYTICAL SAMPLES           | BLOW COUNT  | REMARKS |  |
| 1                                                                                                                                                                         | silty sand (fine) w/ cinders and slag, loose, poorly graded, trace ash, dk. brn. to blk., dry. | 6300<br>0.0     | PSC 00142<br>5-22-02<br>1450 | 7           | 6,800   |  |
|                                                                                                                                                                           |                                                                                                | 6400<br>0.0     | PSC 00143<br>1505            | 7           | 6,700   |  |
|                                                                                                                                                                           |                                                                                                | 5800<br>0.0     |                              | 7           | 6,600   |  |
| 2                                                                                                                                                                         | large piece of slag<br>few brick frags                                                         | 6500<br>0.0     |                              | 5           | 6,500   |  |
| CL                                                                                                                                                                        | silty clay, soft, med. plast., dk. brn., moist, few plant cinders.                             | 5900<br>0.0     |                              | 3           | 6,700   |  |
| SM                                                                                                                                                                        | 3 silty sand (fine), loose, poorly graded, dk. brn., moist, few cinders.                       | 6200<br>0.0     |                              | 3           | 6,700   |  |
|                                                                                                                                                                           |                                                                                                | 6400<br>0.0     | PSC 00144<br>1510            | 4           | 6,800   |  |
| CL                                                                                                                                                                        | 4 silty clay, soft, med. plast., H. brn. to gray, moist                                        | 6000<br>0.0     |                              | 3           | 6,500   |  |
| TD: 4.0' BGS<br>1515<br>5-22-02                                                                                                                                           |                                                                                                | no recovery     |                              |             |         |  |
| Background:<br>NAT: 6200<br>PID: 0.0<br>Drum #1<br>for Soil<br>Cuttings<br>Backfilling<br>Backfilled<br>boring w/<br>1/2 bag bent.<br>chips. Capped<br>boring w/<br>soil. |                                                                                                |                 |                              |             |         |  |

FUS RAP / SLDS

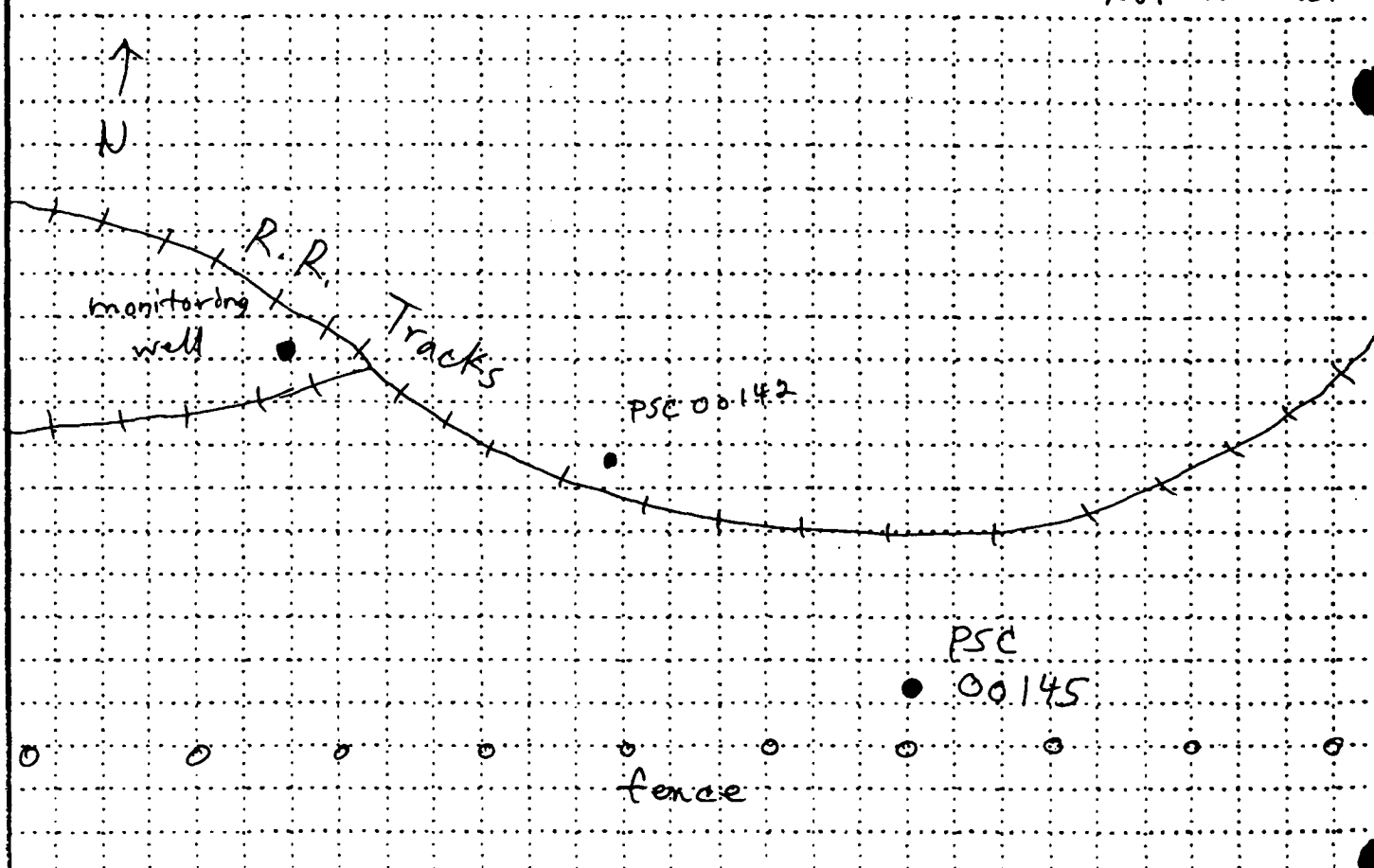
PSC 00142

SLDTH685/10/0

|                                                                                                                                                                            |  |                                                                            |  |                                                     |  |                                                                       |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------|--|-----------------------------------------------------|--|-----------------------------------------------------------------------|--|
| <b>HTRW DRILLING LOG</b>                                                                                                                                                   |  | DISTRICT <b>St. Louis</b>                                                  |  | PC-00145                                            |  | HOLE NUMBER <b>7/1/0</b><br><b>PSC 00145</b>                          |  |
| 1. COMPANY NAME'S<br><b>E. Shaw, E &amp; I</b>                                                                                                                             |  | 2. DRILLING SUBCONTRACTOR<br><b>Layne - Western</b>                        |  | SHEET <b>1</b> OF <b>2</b>                          |  | SHEETS                                                                |  |
| 3. PROJECT<br><b>FUSRAP/SLDS</b>                                                                                                                                           |  | 4. LOCATION<br><b>PSC Metals</b>                                           |  |                                                     |  |                                                                       |  |
| 5. NAME OF DRILLER<br><b>Charles Riffle</b>                                                                                                                                |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><b>CME 75</b>                    |  |                                                     |  |                                                                       |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><b>CME 75 using 4 1/2" Hollow Stem Auger and 3 in. x 2' split spoon. Note: LWD 172059 cal. due dates 12-13-02</b> |  | 8. HOLE LOCATION                                                           |  |                                                     |  |                                                                       |  |
| 9. SURFACE ELEVATION<br><b>PID</b>                                                                                                                                         |  | 10. DATE STARTED<br><b>5-22-02</b>                                         |  | 11. DATE COMPLETED<br><b>5-22-02</b>                |  |                                                                       |  |
| 12. OVERBURDEN THICKNESS<br><b>N/A</b>                                                                                                                                     |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br><b>N/A</b>                            |  |                                                     |  |                                                                       |  |
| 13. DEPTH DRILLED INTO ROCK<br><b>N/A</b>                                                                                                                                  |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><b>N/A</b> |  |                                                     |  |                                                                       |  |
| 14. TOTAL DEPTH OF HOLE<br><b>4.0' BGS</b>                                                                                                                                 |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><b>N/A</b>                 |  |                                                     |  |                                                                       |  |
| 18. GEOTECHNICAL SAMPLES                                                                                                                                                   |  | DISTURBED <input checked="" type="checkbox"/>                              |  | UNDISTURBED <input checked="" type="checkbox"/>     |  | 19. TOTAL NUMBER OF CORE BOXES<br><input checked="" type="checkbox"/> |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                          |  | VOC <input checked="" type="checkbox"/>                                    |  | METALS <input checked="" type="checkbox"/>          |  | OTHER (SPECIFY) <b>RAD</b>                                            |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                    |  | BACKFILLED <input checked="" type="checkbox"/>                             |  | MONITORING WELL <input checked="" type="checkbox"/> |  | 23. SIGNATURE OF INSPECTOR<br><b>Philly M. Hatter</b>                 |  |

**LOCATION SKETCH/COMMENTS**

SCALE: Not to Scale



|                             |                           |
|-----------------------------|---------------------------|
| PROJECT: <b>FUSRAP/SLDS</b> | HOLE NO. <b>PSC 00145</b> |
|-----------------------------|---------------------------|

# HTRW DRILLING LOG (CONTINUATION SHEET)

PROJECT FUSRAP / SLDS INSPECTOR Phillip Statler HOLE NUMBER PSC-00145 SHEET 2 OF 2

| CHS. (1) | DEPTH (2) | DESCRIPTION OF MATERIALS (3)                                                                       | FIELD SAMPLE NO. (4) | RECOVERY (5) | ANALYTICAL SAMPLE NO. (6)    | ALLOY CORRECTION (7) | REMARKS (8)                                                                                                                                      |
|----------|-----------|----------------------------------------------------------------------------------------------------|----------------------|--------------|------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| SM       | 1         | silty sand (fine) w/ some cinders and few med. gravel; loose, poorly graded, dk. brn. to blk, dry. | 6800<br>0.0          | 2.0 / 2.0    | PSC-00145<br>5-22-02<br>1600 | 4                    | 7,300                                                                                                                                            |
|          |           |                                                                                                    | 6500<br>0.0          |              | PSC-00146<br>1615            | 3                    | 6,600                                                                                                                                            |
|          |           |                                                                                                    | 6500<br>- 0.0        |              |                              | 4                    | 6,500                                                                                                                                            |
|          |           |                                                                                                    | 6400<br>0.0          |              |                              | 5                    | 6,600                                                                                                                                            |
|          |           |                                                                                                    | 6400<br>0.0          |              |                              | 3                    | 6,800                                                                                                                                            |
| CL       | 2         | silty clay, soft, med. plast., lt. brn., dry.<br>few cinders                                       | 6400<br>0.0          | 1.7 / 2.0    | PSC-00147<br>1630            | 3                    | 6,600                                                                                                                                            |
|          |           |                                                                                                    | 5900<br>0.0          |              |                              | 3                    | 6,300                                                                                                                                            |
|          |           |                                                                                                    | 6300<br>0.0          |              |                              | 4                    | 6,700                                                                                                                                            |
|          |           |                                                                                                    | 6100<br>0.0          |              |                              |                      |                                                                                                                                                  |
|          | 4         | TP: 4.0' BGS<br>1625<br>5-22-02                                                                    |                      | no recovery  |                              |                      | Back ground<br>NaI: 6200<br>PID: 0.0<br>Cuttings<br>in Drum #1.<br>Back filled<br>w/ 1/2 bag<br>bentonite<br>chips. Capped<br>w/ native<br>soil. |



51074692 2/22/02

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                              |  | DISTRICT St. Louis                                                  | PSC-00148 | HOLE NUMBER: 7/11/02<br>PSC 00148 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------|-----------|-----------------------------------|
| 1. COMPANY NAME<br>Shaw, E & I                                                                                                                                                                                                                                                                                                                                                                 |  | 2. DRILLING SUBCONTRACTOR<br>Layhe - Western                        |           | SHEET 1 of 2                      |
| 3. PROJECT<br>FUSRAP / SLDs                                                                                                                                                                                                                                                                                                                                                                    |  | 4. LOCATION<br>PSC Metals                                           |           |                                   |
| 5. NAME OF DRILLER<br>Charles Riffle                                                                                                                                                                                                                                                                                                                                                           |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br>CME 75                    |           |                                   |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>CME 75 using 4 1/4" Hollow Stem Auger<br>and 3 in v split spoon<br>N/A: LUD 173040<br>cal. due date: 4-1-03<br>RKG: 8.900                                                                                                                                                                                                             |  | 8. HOLE LOCATION                                                    |           |                                   |
| 12. OVERBURDEN THICKNESS<br>N/A                                                                                                                                                                                                                                                                                                                                                                |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br>N/A                            |           |                                   |
| 13. DEPTH DRILLED INTO ROCK<br>N/A                                                                                                                                                                                                                                                                                                                                                             |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A |           |                                   |
| 14. TOTAL DEPTH OF HOLE<br>4.0' BGS                                                                                                                                                                                                                                                                                                                                                            |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                 |           |                                   |
| 18. GEOTECHNICAL SAMPLES<br>DISTURBED <input checked="" type="checkbox"/> UNDISTURBED <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                      |  | 19. TOTAL NUMBER OF CORE BOXES<br>0                                 |           |                                   |
| 20. SAMPLES FOR CHEMICAL ANALYSIS<br>VOC <input checked="" type="checkbox"/> METALS <input checked="" type="checkbox"/> OTHER (SPECIFY) RAD <input checked="" type="checkbox"/>                                                                                                                                                                                                                |  | 21. TOTAL CORE RECOVERY %<br>0                                      |           |                                   |
| 22. DISPOSITION OF HOLE<br>BACKFILLED <input checked="" type="checkbox"/> MONITORING WELL <input checked="" type="checkbox"/> OTHER (SPECIFY) <input checked="" type="checkbox"/>                                                                                                                                                                                                              |  | 23. SIGNATURE OF INSPECTOR<br>[Signature]                           |           |                                   |
| <div style="display: flex; justify-content: space-between;"> <div> <p>LOCATION SKETCH/COMMENTS</p> <div style="border: 1px solid black; padding: 5px; width: 200px; height: 100px; position: relative;"> <p>Dock</p> <p>Gravel Ramp</p> <p>PSC 00148</p> </div> <p>SLD 70102</p> </div> <div> <p>SCALE: Not to Scale</p> <p>↑ N</p> <p>fence</p> <p>R.R. Tracks</p> <p>fence</p> </div> </div> |  |                                                                     |           |                                   |
| PROJECT FUSRAP / SLDs                                                                                                                                                                                                                                                                                                                                                                          |  |                                                                     |           | HOLE NO. PSC 00148                |

Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |       |                                                                                           |                    |                                 |            |                                                                                                                                                           |
|----------------------------------------|-------|-------------------------------------------------------------------------------------------|--------------------|---------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROJECT                                |       | INSPECTOR                                                                                 |                    | HOLE NUMBER                     |            | SHEET                                                                                                                                                     |
| FUSRAP/SLDS                            |       | Phillip Statler                                                                           |                    | PSC-00148                       |            | 2 of 2                                                                                                                                                    |
| CH. NO.                                | DEPTH | DESCRIPTION OF MATERIALS                                                                  | FIELD OBSERVATIONS | ANALYTICAL SAMPLE NO.           | SLOW COUNT | 1 m/min Count                                                                                                                                             |
| SM                                     | 1     | silty sand (fine) med. dense, poorly graded, blk., moist, few cinders and slag<br>few ash | 9200<br>0.0        | PSC-00148<br>7/11/02<br>1.7/1.7 | 14         | 9,400                                                                                                                                                     |
|                                        |       |                                                                                           | 8900<br>0.0        | 2.0                             | 44         | 9,800                                                                                                                                                     |
|                                        |       |                                                                                           | 9400<br>-0.0       | PSC<br>00149<br>0900            | 6          | 10,000                                                                                                                                                    |
|                                        |       |                                                                                           | N/A<br>N/A         | 13                              | N/A        |                                                                                                                                                           |
|                                        | 2     | slag and cinders increasing                                                               | 9000<br>0.0        | 1.9/<br>2.6                     | 21         | 9,200                                                                                                                                                     |
|                                        |       |                                                                                           | 8500<br>0.0        | PSC-00150<br>7/11/02<br>0910    | 44         | 9,600                                                                                                                                                     |
|                                        |       |                                                                                           | 8500<br>0.0        | 32                              | 9,100      |                                                                                                                                                           |
|                                        | 3     | few ash                                                                                   | 8600<br>0.0        | no recovery                     | 20         | 9,000                                                                                                                                                     |
|                                        |       |                                                                                           |                    |                                 |            |                                                                                                                                                           |
|                                        | 4     |                                                                                           |                    |                                 |            |                                                                                                                                                           |
|                                        |       |                                                                                           |                    |                                 |            |                                                                                                                                                           |
|                                        |       | TP: 4.0' BGS<br>0910<br>5-23-02                                                           |                    |                                 |            | Background:<br>NaI: 8,900<br>PID: 0.0<br>Soil Cuttings<br>in P.S. Drum<br>Backfilled<br>w/ 1/2 bag<br>bent. chips.<br>Boring capped<br>w/ native<br>soil. |

FUSRAP/SLDS

PSC 00148

| HTRW DRILLING LOG                                                          |  |              |                                                | DISTRICT <u>SL. LOUIS</u>                                                  |  | HOLE NUMBER <u>SLD 2670</u>                 |  |
|----------------------------------------------------------------------------|--|--------------|------------------------------------------------|----------------------------------------------------------------------------|--|---------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT CORPORATION</u>                                   |  |              | 2. DRILL SUBCONTRACTOR<br><u>Geotechnology</u> |                                                                            |  | 3. SHEET <u>1</u> OF <u>2</u>               |  |
| 4. PROJECT<br><u>FUSRAP/SLOS</u>                                           |  |              |                                                | 5. LOCATION<br><u>Plant 6 Fk (McKinley Spn)</u>                            |  |                                             |  |
| 6. NAME OF DRILLER<br><u>Jim McDonald</u>                                  |  |              |                                                | 7. MANUFACTURER'S DESIGNATION OF DRILL                                     |  |                                             |  |
| 8. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hand Auger</u> |  |              |                                                | 9. HOLE LOCATION                                                           |  |                                             |  |
|                                                                            |  |              |                                                | 10. SURFACE ELEVATION                                                      |  |                                             |  |
|                                                                            |  |              |                                                | 11. DATE STARTED<br><u>8/25/94</u>                                         |  | 12. DATE COMPLETED<br><u>8/25/94</u>        |  |
| 13. OVERBURDEN THICKNESS                                                   |  |              |                                                | 14. DEPTH TO GROUNDWATER ENCOUNTERED<br><u>N/A</u>                         |  |                                             |  |
| 15. DEPTH DRILLED INTO ROCK                                                |  |              |                                                | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                             |  |
| 17. TOTAL DEPTH OF HOLE                                                    |  |              |                                                | 18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                             |  |
| 19. GEOTECHNICAL SAMPLES<br><u>0</u>                                       |  | 20. CUSTOMER |                                                | 21. UNCUSTOMER                                                             |  | 22. TOTAL NUMBER OF CORE BOXES              |  |
| 23. SAMPLES FOR CHEMICAL ANALYSIS                                          |  | VOC          |                                                | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAD</u>               |  |
|                                                                            |  |              |                                                |                                                                            |  | 24. TOTAL CORE RECOVERY                     |  |
| 25. DISPOSITION OF HOLE                                                    |  | BACKFILLED   |                                                | MONITORING WELL                                                            |  | OTHER (SPECIFY)<br><u>TECP</u>              |  |
|                                                                            |  |              |                                                |                                                                            |  | 26. SIGNATURE OF INSPECTOR<br><u>Jim Mc</u> |  |
| LOCATION SKETCH/COMMENTS                                                   |  |              |                                                |                                                                            |  |                                             |  |
| SCALE:                                                                     |  |              |                                                |                                                                            |  |                                             |  |
|                                                                            |  |              |                                                |                                                                            |  |                                             |  |
| PROJECT <u>FUSRAP/SLOS</u>                                                 |  |              |                                                | HOLE NO. <u>SLD 2670</u>                                                   |  | FORM 5056-R, AUG 94                         |  |
|                                                                            |  |              |                                                |                                                                            |  | (Proponent: CECW-EG)                        |  |



# DRILL LOG

| PROJECT    |                             | LOCATION                                    |                | DATE           |                                             |
|------------|-----------------------------|---------------------------------------------|----------------|----------------|---------------------------------------------|
| FUSAP/SIDS |                             | Chris Lock                                  |                | SLD 2670       |                                             |
| DEPTH      | DESCRIPTION OF MATERIALS    | WELL SCREENING                              | WELL SCREENING | WELL SCREENING | WELL SCREENING                              |
| 1          | Shy, CINDOR<br>BINEA        | 11576<br>COUNTS<br>N/A<br>0.0<br>PPM<br>PTO | N/A            | SLD<br>2670    |                                             |
| 2          | SAND, GRAY, SING<br>B. OUND | 12158<br>COUNTS<br>N/A<br>PPM<br>PTO        | N/A            | 13324          |                                             |
| 3          |                             |                                             |                | SLD<br>2777    |                                             |
| 4          | FAT CING<br>GREEN.          | 13140<br>COUNTS<br>N/A<br>0.0<br>PPM<br>PTO | N/A            | 13324          |                                             |
| 5          |                             |                                             |                | SLD<br>2824    | Total CAPAC/<br>Total APODIE<br>Span. label |
| 6          |                             |                                             |                | 14014          |                                             |
| 7          | T.O.                        | 6.0                                         | ft             | 14.0           | h.s 8/25/97<br>DUM 14                       |

SLD 2670

SLD 2670

| HTRW DRILLING LOG                                                                                                                                                                                            |               | DISTRICT: <u>St. Louis</u>                                                 |                                | HOLE NUMBER<br><u>SLD 2671</u> |                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------------------------------------------------------------------|--------------------------------|--------------------------------|-----------------|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                     |               | 2. DRILL SUBCONTRACTOR<br><u>Geotech</u>                                   |                                | SHEET 1 OF 2                   |                 |
| 3. PROJECT<br><u>FUSRAP/SOS</u>                                                                                                                                                                              |               | 4. LOCATION                                                                |                                |                                |                 |
| 5. NAME OF DRILLER<br><u>JIM McDONALD</u>                                                                                                                                                                    |               | 6. MANUFACTURER'S DESIGNATION OF DRILL                                     |                                |                                |                 |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>HMD Auger</u>                                                                                                                                    |               | 8. HOLE LOCATION                                                           |                                |                                |                 |
|                                                                                                                                                                                                              |               | 9. SURFACE ELEVATION                                                       |                                |                                |                 |
|                                                                                                                                                                                                              |               | 10. DATE STARTED                                                           |                                | 11. DATE COMPLETED             |                 |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                     |               | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>74'</u>                            |                                |                                |                 |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                  |               | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>32'</u> |                                |                                |                 |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                      |               | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>74'</u>                 |                                |                                |                 |
| 16. GEOTECHNICAL SAMPLES                                                                                                                                                                                     | 17. DISTURBED | 18. UNDISTURBED                                                            | 19. TOTAL NUMBER OF CORE BOXES |                                |                 |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                            | VOC           | METALS                                                                     | OTHER (SPECIFY)<br><u>RAD</u>  | OTHER (SPECIFY)                | OTHER (SPECIFY) |
| 21. DISPOSITION OF HOLE                                                                                                                                                                                      | ABANDONED     | MONITORING WELL                                                            | OTHER (SPECIFY)                | 22. SIGNATURE OF INSPECTOR     |                 |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                     |               |                                                                            | SCALE:                         |                                |                 |
| <p><u>Pickings Iron</u> <u>Proprietary</u></p> <p><u>SLD 2671</u></p> <p><u>Form</u></p> <p><u>MALICEROT</u> <u>Proprietary</u></p> <p><u>Bu. 20, 101</u> <u>101</u></p> <p><u>11/10/97</u> <u>12/23</u></p> |               |                                                                            |                                |                                |                 |
| PROJECT<br><u>FUSRAP/SOS</u>                                                                                                                                                                                 |               | HOLE NO.<br><u>SLD 2671</u>                                                |                                | FORM 5056-R-AUG 94             |                 |
|                                                                                                                                                                                                              |               | SLD 2671                                                                   |                                | Prepared by: CECW-EG1          |                 |

# WATER DRILLING LOG

SLD 2671

PROJECT FUSRA/205

OPERATOR Chris Locke

DATE 2 Jan 2

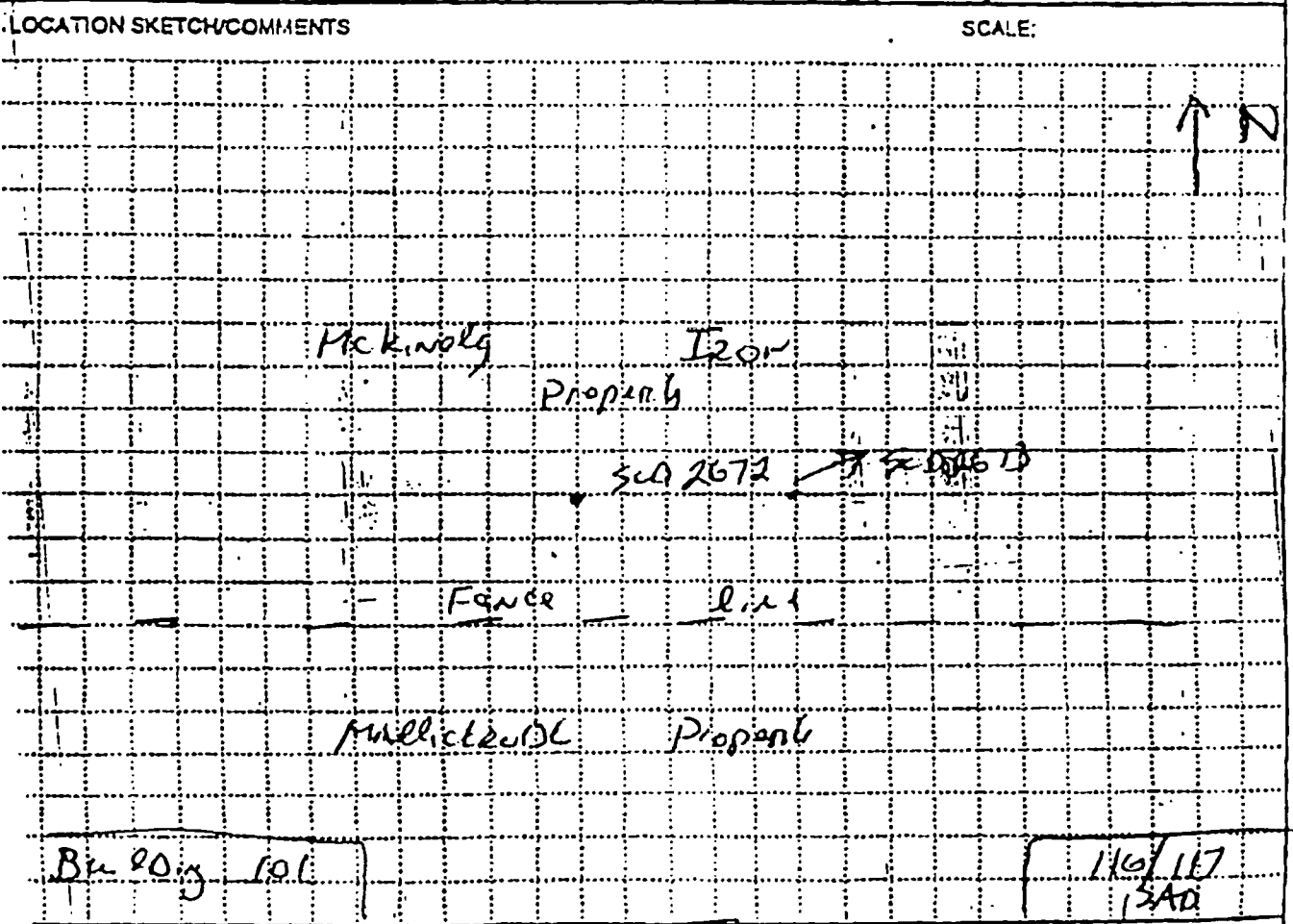
| DEPTH<br>FEET | DEPTH<br>METERS | DESCRIPTION OF MATERIALS<br>(Color, Grain, etc.) | TESTS PERFORMED<br>RELATIVE<br>TO             | TESTED SAMPLE<br>OR CODE FOR USE | ANALYTICAL<br>LABORATORY | REMARKS             |
|---------------|-----------------|--------------------------------------------------|-----------------------------------------------|----------------------------------|--------------------------|---------------------|
| 1             |                 | Gr. Dops                                         | 12263<br>COUNTS<br>N.E.<br>O.D.<br>PPM<br>PTD | N/A                              | SLD<br>2671              |                     |
| 2             |                 | SAND, Gr. Dops<br>Med Brown                      | 12099<br>COUNTS<br>N.E.                       | N/A                              |                          | 1120hrs             |
| 3             |                 |                                                  | 0.0<br>PPM<br>PTD                             |                                  | 2400<br>2748             |                     |
| 4             |                 | FAT CING<br>Green - Brown                        | 12050<br>COUNTS<br>N.E.                       | N/A                              | SLD<br>2671              | 1122hrs             |
| 5             |                 |                                                  | PPM<br>PTD                                    |                                  |                          |                     |
| 6             |                 |                                                  |                                               |                                  |                          | 1125hrs             |
| 7             |                 | TID                                              | 6.0 ft                                        |                                  | 1135 hrs                 | 8/25/97<br>Drum: 14 |

SLD 2671

SLD 2671



| HTRW DRILLING LOG                      |               | DISTRICT                                                            | HOLE NUMBER                    |
|----------------------------------------|---------------|---------------------------------------------------------------------|--------------------------------|
| 1. COMPANY NAME<br>IT Corporation      |               | 32. 2044                                                            | S-D 2672                       |
| 2. PROJECT<br>FUSRAP/SIDS              |               | 3. DRILL SUBCONTRACTOR<br>Geotechnology                             | SHEET 1 OF 2                   |
| 4. NAME OF DRILLER<br>J.R. McDONALD    |               | 5. LOCATION<br>PILOT 6 E 1/2 (McKinley Iron)                        |                                |
| 6. MANUFACTURER'S DESCRIPTION OF DRILL |               | 7. HOLE LOCATION                                                    |                                |
| 8. HOLE DEPTH                          |               | 9. SURFACE ELEVATION                                                |                                |
| 10. DATE STARTED<br>8/15/99            |               | 11. DATE COMPLETED<br>8/25/99                                       |                                |
| 12. OVERBURDEN THICKNESS               |               | 13. DEPTH GROUNDWATER ENCOUNTERED<br>N/A                            |                                |
| 14. DEPTH DRILLED INTO ROCK            |               | 15. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A |                                |
| 16. TOTAL DEPTH OF HOLE                |               | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                 |                                |
| 18. GASTROCHEMICAL SAMPLES             | 19. DISTURBED | 20. UNDISTURBED                                                     | 21. TOTAL NUMBER OF CORE BOXES |
| 22. SAMPLES FOR CHEMICAL ANALYSIS      | VOC           | METALS                                                              | OTHER (SPECIFY)                |
|                                        |               |                                                                     | OTHER (SPECIFY)                |
|                                        |               |                                                                     | OTHER (SPECIFY)                |
| 23. DESCRIPTION OF HOLE                | BACKFILLED    | MONITORING WELL                                                     | OTHER (SPECIFY)                |
|                                        |               |                                                                     | OTHER (SPECIFY)                |
| 24. SIGNATURE OF INSPECTOR             |               | 25. SIGNATURE OF OPERATOR                                           |                                |
|                                        |               |                                                                     |                                |



|                       |             |                      |          |
|-----------------------|-------------|----------------------|----------|
| PROJECT               | FUSRAP/SIDS | HOLE NO.             | S-D 2672 |
| 1 FORM 5056-R, AUG 94 |             | (Proponent: CECW-EG) |          |

# SOIL DRILL LOG

SLD 2672

| PROJECT |  | LOCATION                                |  | DATE                                        |  | SHEET                      |  |
|---------|--|-----------------------------------------|--|---------------------------------------------|--|----------------------------|--|
| DATE    |  | DEPTH                                   |  | DESCRIPTION OF MATERIAL                     |  | TESTS                      |  |
|         |  |                                         |  | FIELD NO.                                   |  | LAB. NO.                   |  |
|         |  |                                         |  | COUNTS                                      |  | PERCENT                    |  |
|         |  |                                         |  | N-I                                         |  | O-D                        |  |
|         |  |                                         |  | PDM                                         |  | PIB                        |  |
| 1       |  | SLY, CINDERS<br>BLACK                   |  | 10182<br>COUNTS<br>N-I<br>O-D<br>PDM<br>PIB |  | 1.0<br>2.0                 |  |
| 2       |  | CINDERS, <del>BLACK</del> GRAY<br>BLACK |  | 10212<br>COUNTS<br>N-I<br>O-D<br>PDM<br>PIB |  | 1.5<br>2.0                 |  |
| 3       |  | LEAN CLAY, WOOD<br>GREEN                |  |                                             |  | 5120<br>2747               |  |
| 4       |  | LEAN CLAY<br>GREEN                      |  | 10335<br>COUNTS<br>N-I<br>O-D<br>PDM<br>PIB |  | 1.5<br>2.0                 |  |
| 5       |  |                                         |  |                                             |  | 5120<br>2826               |  |
| 6       |  |                                         |  |                                             |  | 10335                      |  |
| 7       |  | T.D.                                    |  | 6.0                                         |  | 1045 hrs 8/25/95<br>DUM 14 |  |

| HTRW DRILLING LOG                                                                         |  | DISTRICT<br>SE. COL 43                                                |  | HOLE NUMBER<br>SLD 2673                   |  |
|-------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------|--|-------------------------------------------|--|
| 1. COMPANY NAME<br>IT CORPORATION                                                         |  | 2. DRILL SUBCONTRACTOR<br>Gautsch Logging                             |  | SHEET 1 of 2                              |  |
| 3. PROJECT<br>FUSRAP/205                                                                  |  | 4. LOCATION<br>Plant 6 E/R (McKinley Iron)                            |  |                                           |  |
| 5. NAME OF DRILLER<br>Jim McDonald                                                        |  | 6. MANUFACTURER'S DESIGNATION OF DRILL                                |  |                                           |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Hollow Stem Auger<br>2200' 3000' |  | 8. HOLE LOCATION                                                      |  |                                           |  |
|                                                                                           |  | 9. SURFACE ELEVATION                                                  |  |                                           |  |
|                                                                                           |  | 10. DATE STARTED<br>8/24/95                                           |  | 11. DATE COMPLETED<br>8/24/95             |  |
| 12. OVERBURDEN THICKNESS                                                                  |  | 13. DEPTH TO GROUNDWATER ENCOUNTERED<br>~18.5'                        |  |                                           |  |
| 13. DEPTH CALLED INTO ROCK                                                                |  | 14. DEPTH TO WATER AND SHAPED TIME AFTER DRILLING COMPLETED<br>~18.5' |  |                                           |  |
| 14. TOTAL DEPTH OF HOLE                                                                   |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                   |  |                                           |  |
| 16. GASTROCHEMICAL SAMPLES<br>①                                                           |  | 17. GASTROCHEMICAL<br>UNSTAINED                                       |  | 18. TOTAL NUMBER OF COKE BOXES            |  |
| 19. SAMPLES FOR CHEMICAL ANALYSIS                                                         |  | VOC                                                                   |  | METALS                                    |  |
|                                                                                           |  | OTHER (SPECIFY)<br>RAD                                                |  | OTHER (SPECIFY)                           |  |
| 20. DISPOSITION OF HOLE                                                                   |  | BACKFILLED                                                            |  | MONITORING WELL                           |  |
|                                                                                           |  | OTHER (SPECIFY)<br>JELD                                               |  | 21. SIGNATURE OF INSPECTOR<br>[Signature] |  |
| 22. LOCATION SKETCH/COMMENTS                                                              |  | SCALE:                                                                |  |                                           |  |
|                                                                                           |  |                                                                       |  |                                           |  |
| PROJECT<br>B430.3 101                                                                     |  | SLD 2673                                                              |  | HOLE NO.<br>SLD 2673                      |  |
| FORM 5056-R, AUG 94                                                                       |  | (Proponent: CECV-EG)                                                  |  |                                           |  |



# DIRTY UNLOADING LOG

| FUSRAP/SIDS |            | CARB Lock                                                  |                                       | 2673                       |                        | 2 Jan 2                                                                                                                                  |
|-------------|------------|------------------------------------------------------------|---------------------------------------|----------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| EST. NO.    | DEPTH (ft) | DESCRIPTION OF MATERIAL                                    | NO. LONGER MEAS. (ft)                 | SECTION SAMPLE OR CORE NO. | ANALYSIS SAMPLE NO.    | COMMENTS                                                                                                                                 |
|             | 1          | Top soil (surface) - Brown                                 | 10600 counts<br>NET<br>0.0 PPM<br>PIN | 1.0 / 2.0                  |                        | SAMPLE taken at Bottom 6' top                                                                                                            |
|             | 2          | slay, sand, (lithology) Med Brown                          |                                       |                            | 5400<br>2673<br>1630hr |                                                                                                                                          |
|             | 3          | YARD FILL (lithology, Rubble, Brck, (noted) Brown          | 10023 counts<br>NET<br>0.0 PPM<br>PIN | 1.5 / 2.0                  |                        | SAMPLE taken at Bottom 6'                                                                                                                |
|             | 4          |                                                            |                                       |                            | 5400<br>2750<br>1635hr |                                                                                                                                          |
|             | 5          | Fat Clay Med-Dark Brown lithology uniform throughout zone. | 9643 counts<br>NET<br>0.0 PPM<br>PIN  | 1.0 / 2.0                  |                        | SAMPLE taken at                                                                                                                          |
|             | 6          |                                                            |                                       |                            | 5400<br>2827<br>1640hr | TOTAL CADMIUM/<br>6600 ARSENIC<br>SAMPLE taken.                                                                                          |
|             | 7          | T.D. 6.0 ft                                                |                                       | 1700 hrs                   |                        | 8/24/95<br>Drum 14<br>1. Bag Benhur<br>10659 counts NET<br>Background.<br>Note - split/<br>Dupl Samples are<br>540 2860 A-D<br>540 2861. |

SLD 2673

2673

|                                                                                                      |  |                                                                         |                 |                                   |                                               |
|------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------|-----------------|-----------------------------------|-----------------------------------------------|
| <b>HTRW DRILLING LOG</b>                                                                             |  | DISTRICT <u>SL 204</u>                                                  |                 | HOLE NUMBER <u>SLD 2674</u>       |                                               |
| 1. OCCUPANT NAME <u>IT CORPORATION</u>                                                               |  | 2. DRILL SUB CONTRACTOR <u>Gustafson Nelson</u>                         |                 | SHEET <u>1</u> OF <u>2</u>        |                                               |
| 3. PROJECT <u>FUSRAP/SLDS</u>                                                                        |  | 4. LOCATION <u>PW1 G E 1/2 (McKinley St)</u>                            |                 |                                   |                                               |
| 5. NAME OF DRILLER <u>JIM McDONALD</u>                                                               |  | 6. MANUFACTURER'S DESIGNATION OF DRILL                                  |                 |                                   |                                               |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>Hollow Stem Auger</u><br><u>split spoon</u> |  | 8. HOLE LOCATION                                                        |                 |                                   |                                               |
|                                                                                                      |  | 9. SURFACE ELEVATION                                                    |                 |                                   |                                               |
|                                                                                                      |  | 10. DATE STARTED <u>8/25/97</u>                                         |                 | 11. DATE COMPLETED <u>8/25/97</u> |                                               |
| 12. OVERBURDEN THICKNESS                                                                             |  | 13. DEPTH TO GROUNDWATER ENCOUNTERED <u>N/A</u>                         |                 |                                   |                                               |
| 13. DEPTH DRILLED INTO ROCK                                                                          |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u> |                 |                                   |                                               |
| 14. TOTAL DEPTH OF HOLE                                                                              |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u>                 |                 |                                   |                                               |
| 18. GECOTECHNICAL SAMPLES <u>0</u>                                                                   |  | DISTURBED                                                               |                 | UNCISTURBED                       |                                               |
| 19. TOTAL NUMBER OF CORE BOXES                                                                       |  |                                                                         |                 |                                   |                                               |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                    |  | VOC                                                                     | METALS          | OTHER (SPECIFY) <u>RAD</u>        | OTHER (SPECIFY)                               |
|                                                                                                      |  |                                                                         |                 |                                   |                                               |
| 21. DISPOSITION OF HOLE                                                                              |  | BACKFILLED                                                              | MONITORING WELL | OTHER (SPECIFY) <u>RLO</u>        | 22. SIGNATURE OF INSPECTOR <u>[Signature]</u> |

LOCATION SKETCH/COMMENTS

SCALE:

BL. 101  
101

116/117  
PAD

PROJECT FUSRAP/SLDS

**SLD 2674**

HOLE NO. SLD 2674

# HIRW DRILLING LOG

SLD 2674

| FISHER/SLD'S |       | LOCATION                     |                                            | SLD 2674          |                   |
|--------------|-------|------------------------------|--------------------------------------------|-------------------|-------------------|
| ED.          | DEPTH | DESCRIPTION OF MATERIAL      | TEST RESULTS                               | TESTED SAMPLE NO. | TESTED SAMPLE NO. |
| 1            |       | SLY, CARBON<br>Black         | 9903<br>COUNT<br>NAT<br>O.D<br>PPM<br>PID  | 15<br>2.0         | SLD<br>2674       |
| 2            |       | LEAN CLAY - ORGANIC<br>Green | 10157<br>COUNT<br>NAT<br>O.D<br>PPM<br>PID | 2.0<br>2.0        | 0925H             |
| 3            |       | LEAN CLAY<br>Black           |                                            |                   | SLD<br>2751       |
| 4            |       | LEAN CLAY<br>Black           |                                            |                   | 0925H             |
| 5            |       | LEAN CLAY<br>Black           | 9775<br>COUNT<br>NAT<br>O.D<br>PPM<br>PID  | 1.0<br>2.0        | SLD<br>2828       |
| 6            |       |                              |                                            |                   | 0925H             |
| 7            |       | T.D.                         | 6.0 ft                                     | 0950H             | 6/25/95           |

Sample taken at  
Bottom 6'

Sample taken at  
Bottom 6'

Sample taken at  
Bottom 6'

Total Arsenic/  
Lead Cadmium  
Sample taken

Drill 14

SLD 2674

2674



| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                  |                                                  | DISTRICT <u>SL</u> <u>Low</u>                                              |  | HOLE NUMBER <u>SLD 2675</u>                       |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------|--------------------------------------------------|----------------------------------------------------------------------------|--|---------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT CORPORATION</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                  | 2. DRILL SUBCONTRACTOR<br><u>Geotech No. 100</u> |                                                                            |  | SHEET <u>1</u> OF <u>2</u>                        |  |
| 3. PROJECT<br><u>FUSRAP/SIDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                  |                                                  | 4. LOCATION<br><u>PLANT 6 E4 (McKinley Iron)</u>                           |  |                                                   |  |
| 5. NAME OF DRILLER<br><u>Jim McDonald</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                  |                                                  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>N/A</u>                       |  |                                                   |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Stem Auger</u><br><u>Split Spoon</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                  |                                                  | 8. HOLE LOCATION<br><u>N/A</u>                                             |  |                                                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                  |                                                  | 9. SURFACE ELEVATION<br><u>N/A</u>                                         |  |                                                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                  |                                                  | 10. DATE STARTED<br><u>8/24/99</u>                                         |  | 11. DATE COMPLETED<br><u>8/24/99</u>              |  |
| 12. OVERBURDEN THICKNESS<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                  |                                                  | 13. DEPTH OF UNDERWATER ENCOUNTERED<br><u>N/A</u>                          |  |                                                   |  |
| 13. DEPTH DRILLED INTO ROCK<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                  |                                                  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                   |  |
| 14. TOTAL DEPTH OF HOLE<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                  |                                                  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                   |  |
| 16. GEOTECHNICAL SAMPLES<br><u>Q</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | 17. DISTURBED<br><u>NO</u>       |                                                  | 18. UNDISTURBED<br><u>NO</u>                                               |  | 19. TOTAL NUMBER OF CORE BOXES<br><u>1</u>        |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | VOC<br><u>NO</u>                 |                                                  | METALS<br><u>NO</u>                                                        |  | OTHER (SPECIFY)<br><u>RAO</u>                     |  |
| 21. DEPOSITION OF HOLE<br><u>NO</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | 22. MONITORING WELL<br><u>NO</u> |                                                  | 23. OTHER (SPECIFY)<br><u>TELD</u>                                         |  | 24. SIGNATURE OF INSPECTOR<br><u>Jim McDonald</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                  |                                                  |                                                                            |  |                                                   |  |
| SCALE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                  |                                                  |                                                                            |  |                                                   |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; right: 10%; font-size: 2em;">↑ N</div> <div style="position: absolute; top: 40%; left: 20%; font-size: 1.5em;">McKinley Iron</div> <div style="position: absolute; top: 55%; left: 30%; font-size: 1.5em;">Property</div> <div style="position: absolute; top: 70%; left: 60%; font-size: 1.2em;">SLD 2675</div> <div style="position: absolute; top: 80%; left: 35%; font-size: 1.2em;">Fence Line</div> <div style="position: absolute; top: 85%; left: 30%; font-size: 1.2em;">MARIETTA PROPERTY</div> </div> |  |                                  |                                                  |                                                                            |  |                                                   |  |
| PROJECT <u>FUSRAP/SIDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                  |                                                  | HOLE NO. <u>SLD 2675</u>                                                   |  |                                                   |  |

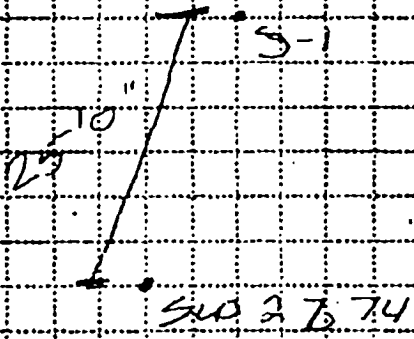
# HIKAW DRILLING LOG

| FUSRAP/SLDS |                                                        | INVESTOR                                   |                                    | SLD 2675                      |                                            |
|-------------|--------------------------------------------------------|--------------------------------------------|------------------------------------|-------------------------------|--------------------------------------------|
| FUSRAP/SLDS |                                                        | Chris Locke                                |                                    | SLD 2675                      |                                            |
| DEPTH       | DESCRIPTION OF MATERIAL                                | FIELD TEMPERATURE<br>DETAILED              | SLIPPERY SAMPLE<br>ON CORE BOX NO. | SLIPPERY SAMPLE<br>ON BOX NO. | SLIPPERY SAMPLE<br>ON BOX NO.              |
| 1           | Slag<br>Black<br>Lithology uniform<br>throughout spoon | 8026<br>counts<br>NaI<br>0.0<br>PPH<br>PIA | 1.5/<br>2.0                        | SLD<br>2675                   | Sample taken at<br>Bottom 2"<br>top        |
| 2           |                                                        |                                            |                                    | 1555A                         |                                            |
| 3           | Slag<br>Black<br>Lean clay<br>Green                    | 7937<br>counts<br>NaI<br>0.0<br>PPH<br>PIA | 1.5/<br>2.0                        | SLD<br>2675                   | Sample taken at<br>Bottom 6"<br>top Bottom |
| 4           | Lean clay - wood<br>Green - Brown                      |                                            |                                    | 1555A                         |                                            |
| 5           | Lean clay - wood<br>Green - Brown                      | 7959<br>counts<br>NaI<br>0.0<br>PPH<br>PIA | 1.5/<br>2.0                        | SLD<br>2675                   | Sample taken at<br>Bottom 6"<br>top Bottom |
| 6           |                                                        |                                            |                                    | 1601A                         |                                            |
| 7           | T.D.                                                   | 6.0 ft                                     |                                    | 1601                          | hrs 8/24/97<br>Dum : 14<br>1 Bay Bentonite |

SLD 2675

SLD 2675

S-1

| HTRW DRILLING LOG                                                                    |  |            | DISTRICT <u>ST. LOUIS</u>                                                  |                          |                                       | HOLE NUMBER<br><u>SLD 3903</u>                   |  |
|--------------------------------------------------------------------------------------|--|------------|----------------------------------------------------------------------------|--------------------------|---------------------------------------|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT CORPORATION</u>                                             |  |            | 2. DRILL SUBCONTRACTOR<br><u>DM</u>                                        |                          |                                       | SHEET <u>1</u> OF <u>2</u>                       |  |
| 3. PROJECT<br><u>FUSPAP/SLD</u>                                                      |  |            | 4. LOCATION<br><u>McKinley ISOR Pumphouse</u>                              |                          |                                       |                                                  |  |
| 5. NAME OF DRILLER<br><u>N/A</u>                                                     |  |            | 6. MANUFACTURER'S DESIGNATION OF DRILL                                     |                          |                                       |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>AT&amp;D ANGR</u>        |  |            | 8. HOLE LOCATION                                                           |                          |                                       |                                                  |  |
|                                                                                      |  |            | 9. SURFACE ELEVATION                                                       |                          |                                       |                                                  |  |
|                                                                                      |  |            | 10. DATE STARTED<br><u>10/14/97</u>                                        |                          | 11. DATE COMPLETED<br><u>10/14/97</u> |                                                  |  |
| 12. OVERBURDEN THICKNESS                                                             |  |            | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |                          |                                       |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                          |  |            | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |                          |                                       |                                                  |  |
| 14. TOTAL DEPTH OF HOLE                                                              |  |            | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |                          |                                       |                                                  |  |
| 16. GEOTECHNICAL SAMPLES<br><u>2</u>                                                 |  | DISTURBED  |                                                                            | UNDISTURBED              |                                       | 18. TOTAL NUMBER OF COARSE BOXES                 |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                    |  | VOC        |                                                                            | METALS                   |                                       | OTHER (SPECIFY)<br><u>RAW</u>                    |  |
|                                                                                      |  |            |                                                                            |                          |                                       | 21. TOTAL CORE RECOVERY                          |  |
| 22. DISPOSITION OF HOLE                                                              |  | BACKFILLED |                                                                            | MONITORING WELL          |                                       | 23. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
|                                                                                      |  |            |                                                                            |                          |                                       |                                                  |  |
| LOCATION SKETCH/COMMENTS                                                             |  |            |                                                                            |                          |                                       |                                                  |  |
| SCALE:                                                                               |  |            |                                                                            |                          |                                       |                                                  |  |
|  |  |            |                                                                            |                          |                                       |                                                  |  |
| PROJECT <u>FUSPAP/SLD</u>                                                            |  |            |                                                                            | HOLE NO. <u>SLD 3903</u> |                                       |                                                  |  |
| G FORM 5056-R, AUG 94                                                                |  |            |                                                                            | (Proponent: CECW-EG)     |                                       |                                                  |  |



Eng 2200/5005 Chris Lobb 440 3403

2-2

| DEPTH | DESCRIPTION OF MATERIAL | NO. OF SAMPLES                                | NO. OF TESTS | NO. OF COUNTS | NO. OF TESTS |
|-------|-------------------------|-----------------------------------------------|--------------|---------------|--------------|
|       | COVER                   |                                               |              |               |              |
| 1     | SAND, BROWN             | 6003<br>COUNTS<br>NAT<br>O.D.<br>P.M.<br>P.E. | N/A          | S.W.<br>3703  |              |
|       | SAND                    |                                               |              | 081711        |              |
| 2     |                         | 6010<br>COUNTS<br>NAT<br>P.M.<br>P.E.         | N/A          | S.W.<br>3704  |              |
|       |                         |                                               |              | 08226         |              |
| 3     |                         |                                               |              |               |              |

Drum: N/A

30570 counts NAT

BA ignored

6" Depth

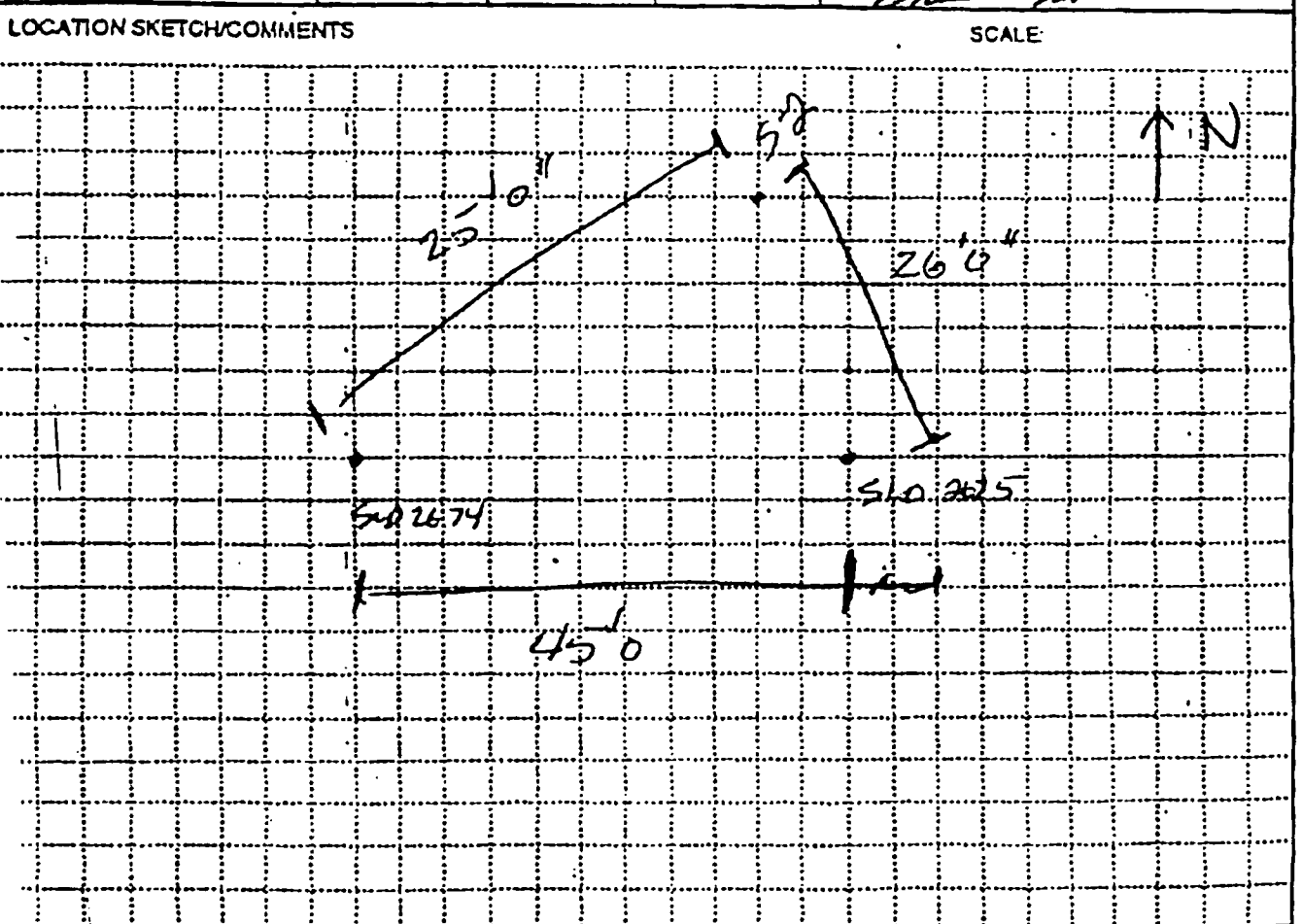
BURIAL COMPASS

A S-1

S.W. 3703

S-2

|                                                                                |  |                                                                            |                                                      |                                       |                                                  |
|--------------------------------------------------------------------------------|--|----------------------------------------------------------------------------|------------------------------------------------------|---------------------------------------|--------------------------------------------------|
| <b>HTRW DRILLING LOG</b>                                                       |  | DISTRICT <u>SLC</u> <u>LOCAL</u>                                           |                                                      | HOLE NUMBER <u>SLD 3905</u>           |                                                  |
| 1. COMPANY NAME<br><u>LT Corporation</u>                                       |  | 2. DRILL SUBCONTRACTOR<br><u>N/A</u>                                       |                                                      | SHEET <u>1</u> OF <u>2</u>            |                                                  |
| 3. PROJECT<br><u>FUSRAP/205</u>                                                |  |                                                                            | 4. LOCATION<br><u>PICKINWAY IRON Property</u>        |                                       |                                                  |
| 5. NAME OF DRILLER<br><u>N/A</u>                                               |  |                                                                            | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>N/A</u> |                                       |                                                  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Cor HAND Auger</u> |  | 8. HOLE LOCATION                                                           |                                                      |                                       |                                                  |
|                                                                                |  | 9. SURFACE ELEVATION                                                       |                                                      |                                       |                                                  |
|                                                                                |  | 10. DATE STARTED<br><u>10/14/99</u>                                        |                                                      | 11. DATE COMPLETED<br><u>10/14/99</u> |                                                  |
| 12. OVERBURDEN THICKNESS                                                       |  | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |                                                      |                                       |                                                  |
| 13. DEPTH DRILLED INTO ROCK                                                    |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |                                                      |                                       |                                                  |
| 14. TOTAL DEPTH OF HOLE                                                        |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |                                                      |                                       |                                                  |
| 16. GEOTECHNICAL SAMPLES                                                       |  | DISTURBED                                                                  |                                                      | UNDISTURBED                           |                                                  |
| 17. SAMPLES FOR CHEMICAL ANALYSIS                                              |  | VOC                                                                        | METALS                                               | OTHER (SPECIFY)<br><u>RA3</u>         | OTHER (SPECIFY)                                  |
| 18. DISPOSITION OF HOLE                                                        |  | BAGGED                                                                     | MONITORING WELL                                      | OTHER (SPECIFY)                       | 19. TOTAL CORE RECOVERY                          |
|                                                                                |  |                                                                            |                                                      |                                       | 20. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |



|                           |  |                          |
|---------------------------|--|--------------------------|
| PROJECT <u>FUSRAP/205</u> |  | HOLE NO. <u>SLD 3905</u> |
| G FORM 5056-R, AUG 94     |  | (Proponent: CECW-EG)     |

SLD 3905

50 3905

2

FUSRA/SLS

Chas. Lode

DESCRIPTION OF MATERIAL

NEW TRENCH

SOIL TYPE

TEST

DATE

1 SAND  
Bmr

6363  
COUNTS  
N-I

NH

50  
3805  
0855A

2 SAND  
Bmr

6707  
COUNTS  
N-I  
O-J  
PPT  
HSP

NH

50  
3706  
0859

TID 2.2'

0905

hrs

10/11/94

Pin: NH

Boring corresponds  
S-2

2035 counts per  
6" depth

T.D. Due to  
Refusal.

SLD 3905

50 3905



FLORAD/SIX      CH13 Lock      SLD 3907  
 2 ven 2

| ED. | DATE | DESCRIPTION OF MATERIAL | NO. SAMPLES                        | TIME | DATE         | TIME |
|-----|------|-------------------------|------------------------------------|------|--------------|------|
|     |      | Comp                    |                                    |      |              |      |
| 1   |      | SAND<br>Bowl            | 6996<br>COUNT<br>NET<br>0.0<br>PPM | N/A  | 0.00<br>3957 |      |
| 2   |      | SAND<br>Bowl            | 6541<br>COUNTS<br>NET              | N/A  | 0.00<br>3908 |      |
| 3   |      |                         |                                    |      |              |      |

DATA: N/A  
 Boring was made  
 to S-3

34494 counts NET  
 Background 6" DATA

SLD 3907

SLD 3907

SOIL DRILLING WITH

| HTRW DRILLING LOG                                                          |  |            | DISTRICT                                                     |                 |                    | HOLE NUMBER                       |  |
|----------------------------------------------------------------------------|--|------------|--------------------------------------------------------------|-----------------|--------------------|-----------------------------------|--|
| 1. COMPANY NAME<br><i>IT Corporation</i>                                   |  |            | 2. DRILL SUBCONTRACTOR                                       |                 |                    | 3. HOLE NUMBER<br><i>510-4122</i> |  |
| 3. PROJECT<br><i>ENSRAP/SID</i>                                            |  |            | 4. LOCATION                                                  |                 |                    |                                   |  |
| 5. NAME OF DRILLER<br><i>N/A</i>                                           |  |            | 6. MANUFACTURER'S DESIGNATION OF DRILL                       |                 |                    |                                   |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><i>Hand Auger</i> |  |            | 8. HOLE LOCATION                                             |                 |                    |                                   |  |
|                                                                            |  |            | 9. SURFACE ELEVATION                                         |                 |                    |                                   |  |
|                                                                            |  |            | 10. DATE STARTED                                             |                 | 11. DATE COMPLETED |                                   |  |
| 12. OVERBURDEN THICKNESS                                                   |  |            | 13. DEPTH GROUNDWATER ENCOUNTERED                            |                 |                    |                                   |  |
| 14. DEPTH DRILLED INTO ROCK                                                |  |            | 15. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED |                 |                    |                                   |  |
| 16. TOTAL DEPTH OF HOLE                                                    |  |            | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)                 |                 |                    |                                   |  |
| 18. GEOTECHNICAL SAMPLES                                                   |  | DISTURBED  |                                                              | UNDISTURBED     |                    | 19. TOTAL NUMBER OF CORE BOXES    |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                          |  | VOC        |                                                              | METALS          |                    | OTHER (SPECIFY)                   |  |
|                                                                            |  |            |                                                              |                 |                    | <i>Rad</i>                        |  |
| 22. DISPOSITION OF HOLE                                                    |  | BACKFILLED |                                                              | MONITORING WELL |                    | OTHER (SPECIFY)                   |  |
|                                                                            |  |            |                                                              |                 |                    | 23. SIGNATURE OF INSPECTOR        |  |
| LOCATION SKETCH/COMMENTS                                                   |  |            |                                                              |                 |                    |                                   |  |
| SCALE:                                                                     |  |            |                                                              |                 |                    |                                   |  |
|                                                                            |  |            |                                                              |                 |                    |                                   |  |
| PROJECT<br><i>ENSRAP/SID</i>                                               |  |            |                                                              |                 |                    | HOLE NO.<br><i>510-4122</i>       |  |

| PROJECT NO. |                                | INSPECTOR                           |                                   | DOJ ENV-111           |                                        | 240 4120 |  |
|-------------|--------------------------------|-------------------------------------|-----------------------------------|-----------------------|----------------------------------------|----------|--|
| DEPTH       | DESCRIPTION OF MATERIALS       | FIELD SCREENING RESULTS             | CERTIFIED SAMPLE OR FIELD BOX NO. | ANALYTICAL SAMPLE NO. | COMMENTS                               |          |  |
|             | COVER                          |                                     |                                   |                       |                                        |          |  |
| 1           | SAND, CINDER<br>Brown          | 7723<br>counts<br>N/A<br>0.0<br>P/P | N/A                               | SWD<br>4120           | Composite Sample<br>taken 4.0%         |          |  |
| 2           |                                |                                     |                                   |                       |                                        |          |  |
| 3           | SAND, CINDER, COAL CM<br>Brown | 7664<br>counts<br>N/A<br>0.0<br>P/P | N/A                               | SWD<br>4176           | Composite Sample<br>taken 4.2%         |          |  |
| 4           |                                |                                     |                                   |                       |                                        |          |  |
| 5           | FIL CM<br>Brown                | 6883<br>counts<br>N/A<br>0.0<br>P/P | N/A                               | SWD<br>4200           | Composite Sample<br>taken 4.5%         |          |  |
| 6           |                                |                                     |                                   |                       |                                        |          |  |
| 7           | TID                            | 6.7                                 | 0925 hrs                          | 11/15/95              | Split / Duplicate<br>Boring<br>Drawn 3 |          |  |

FUGRAB/SWS

SWD 4120



|                                                                                                       |            |                                                                            |                                                |                                      |                 |
|-------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------|------------------------------------------------|--------------------------------------|-----------------|
| <b>HTRW DRILLING LOG</b>                                                                              |            | DISTRICT <u>St. Louis</u>                                                  |                                                | HOLE NUMBER <u>SD 4133</u>           |                 |
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                              |            | 2. DRILL SUBCONTRACTOR<br><u>Geotechnology</u>                             |                                                | SHEET <u>1</u> OF <u>2</u>           |                 |
| 3. PROJECT<br><u>FUGRAP/SDS</u>                                                                       |            | 4. LOCATION<br><u>Plant GE (McKinley Iron)</u>                             |                                                |                                      |                 |
| 5. NAME OF DRILLER<br><u>Kenn Bessler</u>                                                             |            | 6. MANUFACTURER: DESIGNATION OF DRILL                                      |                                                |                                      |                 |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow stem Auger</u><br><u>202T SPDR</u> |            | 8. HOLE LOCATION                                                           |                                                |                                      |                 |
|                                                                                                       |            | 9. SURFACE ELEVATION                                                       |                                                |                                      |                 |
|                                                                                                       |            | 10. DATE STARTED<br><u>11/2/97</u>                                         |                                                | 11. DATE COMPLETED<br><u>11/2/97</u> |                 |
| 12. OVERBURDEN THICKNESS                                                                              |            | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>NTA</u>                            |                                                |                                      |                 |
| 14. DEPTH DRILLED INTO ROCK                                                                           |            | 15. DEPTH TO WATER AND CLAPPED TIME AFTER DRILLING COMPLETED<br><u>NTA</u> |                                                |                                      |                 |
| 16. TOTAL DEPTH OF HOLE                                                                               |            | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>NTA</u>                 |                                                |                                      |                 |
| 18. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                  | DISTURBED  | UNDISTURBED                                                                | 19. TOTAL NUMBER OF CORE BOXES                 |                                      |                 |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                     | VOC        | METALS                                                                     | OTHER (SPECIFY)<br><u>RAO</u>                  | OTHER (SPECIFY)                      | OTHER (SPECIFY) |
| 22. DISPOSITION OF HOLE                                                                               | BACKFILLED | MONITORING WELL                                                            | OTHER (SPECIFY)                                | 21. TOTAL CORE RECOVERY              |                 |
|                                                                                                       |            |                                                                            | 23. SIGNATURE OF INSPECTOR<br><u>Chris Tab</u> |                                      |                 |
| LOCATION SKETCH/COMMENTS                                                                              |            |                                                                            | SCALE:                                         |                                      |                 |
|                                                                                                       |            |                                                                            |                                                |                                      |                 |
| PROJECT <u>FUGRAP/SDS</u>                                                                             |            |                                                                            | HOLE NO. <u>SD 4133</u>                        |                                      |                 |

| FUSRAP/SLOS |                              | CRIMS Lock                                   |            | SLO 4133     |                                   |
|-------------|------------------------------|----------------------------------------------|------------|--------------|-----------------------------------|
| NO.         | DESCRIPTION OF MATERIAL      | NO. TEMPLATES                                | NO. COUNTS | NO. SLO      | NO. SLO                           |
| 1           | COAL<br>Slag cinder<br>Black | 8549<br>COUNTS<br>N.I.<br>O.U.<br>PDM<br>PDI | 2.0<br>2.0 | 5400<br>4133 | Sample Inter<br>up 6"             |
| 2           | Brick<br>Red                 |                                              |            | 1521hr       |                                   |
| 3           | Slag cinder<br>Black         | 9535<br>COUNTS<br>N.I.<br>O.U.<br>PDM<br>PDI | 2.0<br>2.0 | 5400<br>4187 | Sample Inter<br>up 6"             |
| 4           | Land<br>Brown                |                                              |            | 1524hr       | From distance<br>COC to<br>Verify |
| 5           | Fat cim<br>Brown-green       |                                              |            |              |                                   |
| 6           | Fat cim<br>Green             | 9635<br>COUNTS<br>N.I.<br>O.U.<br>PDM<br>PDI | 1.7<br>2.0 | 5400<br>4124 | Sample Inter<br>up 6"             |
| 7           |                              |                                              |            | 1528hr       |                                   |
| T.O 6.2/1   |                              |                                              |            | 1540 hrs     | 11/2/99                           |

FUSRAP/SLOS

SLO 4133

|                                                                                                    |            |                                                                           |                                |                                                  |                 |
|----------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------|--------------------------------|--------------------------------------------------|-----------------|
| <b>HTRW DRILLING LOG</b>                                                                           |            | DISTRICT <u>St. Louis</u>                                                 |                                | HOLE NUMBER <u>500 4143</u>                      |                 |
| 1. COMPANY NAME<br><u>IT CORPORATION</u>                                                           |            | 2. DRILL SUBCONTRACTOR<br><u>Geotechnical</u>                             |                                | SHEET <u>1</u> OF <u>2</u>                       |                 |
| 3. PROJECT<br><u>FUSRAP/SLDS</u>                                                                   |            | 4. LOCATION<br><u>PLANT GE (MCKINLEY TOWN)</u>                            |                                |                                                  |                 |
| 5. NAME OF DRILLER<br><u>Kevin Bassler</u>                                                         |            | 6. MANUFACTURER DESIGNATION OF DRILL                                      |                                |                                                  |                 |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>16" 3/4" Auger</u><br><u>SPRT 5000</u> |            | 8. HOLE LOCATION                                                          |                                |                                                  |                 |
|                                                                                                    |            | 9. SURFACE ELEVATION                                                      |                                |                                                  |                 |
|                                                                                                    |            | 10. DATE STARTED<br><u>11/2/78</u>                                        |                                | 11. DATE COMPLETED<br><u>11/18/78</u>            |                 |
| 12. OVERBURDEN THICKNESS                                                                           |            | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>NA</u>                            |                                |                                                  |                 |
| 14. DEPTH DRILLED INTO ROCK                                                                        |            | 15. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>NA</u> |                                |                                                  |                 |
| 16. TOTAL DEPTH OF HOLE                                                                            |            | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>NA</u>                 |                                |                                                  |                 |
| 18. GEOTECHNICAL SAMPLES<br><u>0</u>                                                               | DISTURBED  | UNDISTURBED                                                               | 19. TOTAL NUMBER OF CORE BOXES |                                                  |                 |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                  | VOC        | METALS                                                                    | OTHER (SPECIFY)<br><u>TECP</u> | OTHER (SPECIFY)<br><u>PAH</u>                    | OTHER (SPECIFY) |
| 21. DISPOSITION OF HOLE                                                                            | BACKFILLED | MONITORING WELL                                                           | OTHER (SPECIFY)                | 22. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |                 |
| 23. TOTAL CORE RECOVERY                                                                            |            |                                                                           |                                |                                                  |                 |

LOCATION SKETCH/COMMENTS

SCALE:

|          |  |          |  |          |  |
|----------|--|----------|--|----------|--|
| MCKINLEY |  | TOWN     |  | PROPERTY |  |
| 500 4135 |  | 500 4143 |  |          |  |
| MADRID   |  | PROPERTY |  |          |  |

PROJECT FUSRAP/SLDS

HOLE NO. 500 4143

G FORM 5056-R, AUG 94

(Proponent: CECW, EGI)



| FUSPAP/SPDS             |                                           | Chris Locke                                |             | SEP 4/93     |                                               |
|-------------------------|-------------------------------------------|--------------------------------------------|-------------|--------------|-----------------------------------------------|
| DESCRIPTION OF MATERIAL |                                           | TEST RESULTS                               | TEST METHOD | TEST DATE    | TESTER                                        |
| 1                       | COV42<br>Brick, SAND, green<br>Red, Brown | 7690<br>counts<br>net<br>0.0<br>ppm<br>PID | 1.5<br>2.0  | 5.00<br>4143 | DATA taken<br>top 6"                          |
| 2                       |                                           |                                            |             | 1456         |                                               |
| 3                       | Loam clay, Brick, wall<br>Brown, Red      | 7690<br>counts<br>net<br>0.0<br>ppm<br>PID | 2.0<br>2.0  | 5.00<br>4197 | DATA taken<br>top 6"                          |
| 4                       |                                           |                                            |             | 1450         |                                               |
| 5                       | Sing, cinders, Brick<br>Brown, Red        | 7610<br>counts<br>net<br>0.0<br>ppm<br>PID | 1.7<br>2.0  | 5.00<br>4291 | DATA taken<br>top 6"<br>Metal sample<br>taken |
| 6                       | Loam - int clay<br>Brown                  |                                            |             | 1458         |                                               |
| 7                       |                                           |                                            |             |              |                                               |
|                         | TID                                       | 6261                                       | 1500 hrs    | 11/2/99      |                                               |

FUSPAP/SPDS

SEP 4/93

| HTRW DRILLING LOG                                                                               |  | DISTRICT                                                   |  | HOLE NUMBER                                                                |  |
|-------------------------------------------------------------------------------------------------|--|------------------------------------------------------------|--|----------------------------------------------------------------------------|--|
| 1. COMPANY NAME<br><b>IT Corporation</b>                                                        |  | 41. <b>Lexis</b>                                           |  | <b>90 4150</b>                                                             |  |
| 2. PROJECT<br><b>FUSRAP/SMS</b>                                                                 |  | 3. DRILL SUPERVISOR<br><b>Goodman</b>                      |  | SHEET 1 OF 1                                                               |  |
| 4. NAME OF DRILLER<br><b>Kenn Bessler</b>                                                       |  | 5. LOCATION<br><b>Plot 6E (McKinley Iron)</b>              |  | 6. MANUFACTURER'S DESIGNATION OF DRILL                                     |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><b>Hollow Stem Auger<br/>5000 5000</b> |  | 8. HOLE LOCATION                                           |  | 9. SURFACE ELEVATION                                                       |  |
| 10. OVERALL HOLE THICKNESS                                                                      |  | 11. DATE STARTED<br><b>11/2/91</b>                         |  | 12. DATE COMPLETED<br><b>11/2/91</b>                                       |  |
| 13. DEPTH DRILLED INTO ROCK                                                                     |  | 14. DEPTH TO GROUNDWATER ENCOUNTERED<br><b>N/A</b>         |  | 15. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><b>N/A</b> |  |
| 16. TOTAL DEPTH OF HOLE                                                                         |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><b>N/A</b> |  | 18. TOTAL NUMBER OF CORE BOXES                                             |  |
| 19. GEOLOGICAL SAMPLES                                                                          |  | 20. SAMPLES FOR CHEMICAL ANALYSIS                          |  | 21. TOTAL CORE RECOVERY                                                    |  |
| DISTURBED                                                                                       |  | UNDISTURBED                                                |  | OTHER (SPECIFY)                                                            |  |
| VOC                                                                                             |  | METALS                                                     |  | OTHER (SPECIFY)                                                            |  |
| TCP                                                                                             |  | RAD                                                        |  | OTHER (SPECIFY)                                                            |  |
| DISPOSITION OF HOLE                                                                             |  | BAGGED                                                     |  | MONITORING WELL                                                            |  |
| OTHER (SPECIFY)                                                                                 |  | OTHER (SPECIFY)                                            |  | SIGNATURE OF INSPECTOR<br><i>John F. Fink</i>                              |  |

LOCATION SKETCH/COMMENTS

SCALE:

McKinley Iron Property

Plot 6E

Plot 6F

Plot 6G

Plot 6H

Plot 6I

Plot 6J

Plot 6K

Plot 6L

Plot 6M

Plot 6N

Plot 6O

Plot 6P

Plot 6Q

Plot 6R

Plot 6S

Plot 6T

Plot 6U

Plot 6V

Plot 6W

Plot 6X

Plot 6Y

Plot 6Z

Plot 6AA

Plot 6AB

Plot 6AC

Plot 6AD

Plot 6AE

Plot 6AF

Plot 6AG

Plot 6AH

Plot 6AI

Plot 6AJ

Plot 6AK

Plot 6AL

Plot 6AM

Plot 6AN

Plot 6AO

Plot 6AP

Plot 6AQ

Plot 6AR

Plot 6AS

Plot 6AT

Plot 6AU

Plot 6AV

Plot 6AW

Plot 6AX

Plot 6AY

Plot 6AZ

Plot 6BA

Plot 6BB

Plot 6BC

Plot 6BD

Plot 6BE

Plot 6BF

Plot 6BG

Plot 6BH

Plot 6BI

Plot 6BJ

Plot 6BK

Plot 6BL

Plot 6BM

Plot 6BN

Plot 6BO

Plot 6BP

Plot 6BQ

Plot 6BR

Plot 6BS

Plot 6BT

Plot 6BU

Plot 6BV

Plot 6BW

Plot 6BX

Plot 6BY

Plot 6BZ

Plot 6CA

Plot 6CB

Plot 6CC

Plot 6CD

Plot 6CE

Plot 6CF

Plot 6CG

Plot 6CH

Plot 6CI

Plot 6CJ

Plot 6CK

Plot 6CL

Plot 6CM

Plot 6CN

Plot 6CO

Plot 6CP

Plot 6CQ

Plot 6CR

Plot 6CS

Plot 6CT

Plot 6CU

Plot 6CV

Plot 6CW

Plot 6CX

Plot 6CY

Plot 6CZ

Plot 6DA

Plot 6DB

Plot 6DC

Plot 6DD

Plot 6DE

Plot 6DF

Plot 6DG

Plot 6DH

Plot 6DI

Plot 6DJ

Plot 6DK

Plot 6DL

Plot 6DM

Plot 6DN

Plot 6DO

Plot 6DP

Plot 6DQ

Plot 6DR

Plot 6DS

Plot 6DT

Plot 6DU

Plot 6DV

Plot 6DW

Plot 6DX

Plot 6DY

Plot 6DZ

Plot 6EA

Plot 6EB

Plot 6EC

Plot 6ED

Plot 6EE

Plot 6EF

Plot 6EG

Plot 6EH

Plot 6EI

Plot 6EJ

Plot 6EK

Plot 6EL

Plot 6EM

Plot 6EN

Plot 6EO

Plot 6EP

Plot 6EQ

Plot 6ER

Plot 6ES

Plot 6ET

Plot 6EU

Plot 6EV

Plot 6EW

Plot 6EX

Plot 6EY

Plot 6EZ

Plot 6FA

Plot 6FB

Plot 6FC

Plot 6FD

Plot 6FE

Plot 6FF

Plot 6FG

Plot 6FH

Plot 6FI

Plot 6FJ

Plot 6FK

Plot 6FL

Plot 6FM

Plot 6FN

Plot 6FO

Plot 6FP

Plot 6FQ

Plot 6FR

Plot 6FS

Plot 6FT

Plot 6FU

Plot 6FV

Plot 6FW

Plot 6FX

Plot 6FY

Plot 6FZ

Plot 6GA

Plot 6GB

Plot 6GC

Plot 6GD

Plot 6GE

Plot 6GF

Plot 6GG

Plot 6GH

Plot 6GI

Plot 6GJ

Plot 6GK

Plot 6GL

Plot 6GM

Plot 6GN

Plot 6GO

Plot 6GP

Plot 6GQ

Plot 6GR

Plot 6GS

Plot 6GT

Plot 6GU

Plot 6GV

Plot 6GW

Plot 6GX

Plot 6GY

Plot 6GZ

Plot 6HA

Plot 6HB

Plot 6HC

Plot 6HD

Plot 6HE

Plot 6HF

Plot 6HG

Plot 6HH

Plot 6HI

Plot 6HJ

Plot 6HK

Plot 6HL

Plot 6HM

Plot 6HN

Plot 6HO

Plot 6HP

Plot 6HQ

Plot 6HR

Plot 6HS

Plot 6HT

Plot 6HU

Plot 6HV

Plot 6HW

Plot 6HX

Plot 6HY

Plot 6HZ

Plot 6IA

Plot 6IB

Plot 6IC

Plot 6ID

Plot 6IE

Plot 6IF

Plot 6IG

Plot 6IH

Plot 6II

Plot 6IJ

Plot 6IK

Plot 6IL

Plot 6IM

Plot 6IN

Plot 6IO

Plot 6IP

Plot 6IQ

Plot 6IR

Plot 6IS

Plot 6IT

Plot 6IU

Plot 6IV

Plot 6IW

Plot 6IX

Plot 6IY

Plot 6IZ

Plot 6JA

Plot 6JB

Plot 6JC

Plot 6JD

Plot 6JE

Plot 6JF

Plot 6JG

Plot 6JH

Plot 6JI

Plot 6JJ

Plot 6JK

Plot 6JL

Plot 6JM

Plot 6JN

Plot 6JO

Plot 6JP

Plot 6JQ

Plot 6JR

Plot 6JS

Plot 6JT

Plot 6JU

Plot 6JV

Plot 6JW

Plot 6JX

Plot 6JY

Plot 6JZ

Plot 6KA

Plot 6KB

Plot 6KC

Plot 6KD

Plot 6KE

Plot 6KF

Plot 6KG

Plot 6KH

Plot 6KI

Plot 6KJ

Plot 6KK

Plot 6KL

Plot 6KM

Plot 6KN

Plot 6KO

Plot 6KP

Plot 6KQ

Plot 6KR

Plot 6KS

Plot 6KT

Plot 6KU

Plot 6KV

Plot 6KW

Plot 6KX

Plot 6KY

Plot 6KZ

Plot 6LA

Plot 6LB

Plot 6LC

Plot 6LD

Plot 6LE

Plot 6LF

Plot 6LG

Plot 6LH

Plot 6LI

Plot 6LJ

Plot 6LK

Plot 6LL

Plot 6LM

Plot 6LN

Plot 6LO

Plot 6LP

Plot 6LQ

Plot 6LR

Plot 6LS

Plot 6LT

Plot 6LU

Plot 6LV

Plot 6LW

Plot 6LX

Plot 6LY

Plot 6LZ

Plot 6MA

Plot 6MB

Plot 6MC

Plot 6MD

Plot 6ME

Plot 6MF

Plot 6MG

Plot 6MH

Plot 6MI

Plot 6MJ

Plot 6MK

Plot 6ML

Plot 6MM

Plot 6MN

Plot 6MO

Plot 6MP

Plot 6MQ

Plot 6MR

Plot 6MS

Plot 6MT

Plot 6MU

Plot 6MV

Plot 6MW

Plot 6MX

Plot 6MY

Plot 6MZ

Plot 6NA

Plot 6NB

Plot 6NC

Plot 6ND

Plot 6NE

Plot 6NF

Plot 6NG

Plot 6NH

Plot 6NI

Plot 6NJ

Plot 6NK

Plot 6NL

Plot 6NM

Plot 6NN

Plot 6NO

Plot 6NP

Plot 6NQ

Plot 6NR

Plot 6NS

Plot 6NT

Plot 6NU

Plot 6NV

Plot 6NW

Plot 6NX

Plot 6NY

Plot 6NZ

Plot 6OA

Plot 6OB

Plot 6OC

Plot 6OD

Plot 6OE

Plot 6OF

Plot 6OG

Plot 6OH

Plot 6OI

Plot 6OJ

Plot 6OK

Plot 6OL

Plot 6OM

Plot 6ON

Plot 6OO

Plot 6OP

Plot 6OQ

Plot 6OR

Plot 6OS

Plot 6OT

Plot 6OU

Plot 6OV

Plot 6OW

Plot 6OX

Plot 6OY

Plot 6OZ

Plot 6PA

Plot 6PB

Plot 6PC

Plot 6PD

Plot 6PE

Plot 6PF

Plot 6PG

Plot 6PH

Plot 6PI

Plot 6PJ

Plot 6PK

Plot 6PL

Plot 6PM

Plot 6PN

Plot 6PO

Plot 6PP

Plot 6PQ

Plot 6PR

Plot 6PS

Plot 6PT

Plot 6PU

Plot 6PV

Plot 6PW

Plot 6PX

Plot 6PY

Plot 6PZ

Plot 6QA

Plot 6QB

Plot 6QC

Plot 6QD

Plot 6QE

Plot 6QF

Plot 6QG

Plot 6QH

Plot 6QI

Plot 6QJ

Plot 6QK

Plot 6QL

Plot 6QM

Plot 6QN

Plot 6QO

Plot 6QP

Plot 6QQ

Plot 6QR

Plot 6QS

Plot 6QT

Plot 6QU

Plot 6QV

Plot 6QW

Plot 6QX

Plot 6QY

Plot 6QZ

Plot 6RA

Plot 6RB

Plot 6RC

Plot 6RD

Plot 6RE

Plot 6RF

Plot 6RG

Plot 6RH

Plot 6RI

Plot 6RJ

Plot 6RK

Plot 6RL

Plot 6RM

Plot 6RN

Plot 6RO

Plot 6RP

Plot 6RQ

Plot 6RR

Plot 6RS

Plot 6RT

Plot 6RU

Plot 6RV

Plot 6RW

Plot 6RX

Plot 6RY

Plot 6RZ

Plot 6SA

Plot 6SB

Plot 6SC

Plot 6SD

Plot 6SE

Plot 6SF

Plot 6SG

Plot 6SH

Plot 6SI

Plot 6SJ

Plot 6SK

Plot 6SL

Plot 6SM

Plot 6SN

Plot 6SO

Plot 6SP

Plot 6SQ

Plot 6SR

Plot 6SS

Plot 6ST

Plot 6SU

Plot 6SV

Plot 6SW

Plot 6SX

Plot 6SY

Plot 6SZ

Plot 6TA

Plot 6TB

Plot 6TC

Plot 6TD

Plot 6TE

Plot 6TF

Plot 6TG

Plot 6TH

Plot 6TI

Plot 6TJ

Plot 6TK

Plot 6TL

Plot 6TM

Plot 6TN

Plot 6TO

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Plot 6UJ

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Plot 6UO

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Plot 6UT

Plot 6UU

Plot 6UV

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Plot 6VA

Plot 6VB

Plot 6VC

Plot 6VD

Plot 6VE

Plot 6VF

Plot 6VG

Plot 6VH

Plot 6VI

Plot 6VJ

Plot 6VK

Plot 6VL

Plot 6VM

Plot 6VN

Plot 6VO

Plot 6VP

Plot 6VQ

Plot 6VR

Plot 6VS

Plot 6VT

Plot 6VU

Plot 6VV

Plot 6VW

Plot 6VX

Plot 6VY

Plot 6VZ

Plot 6WA

Plot 6WB

Plot 6WC

Plot 6WD

Plot 6WE

Plot 6WF

Plot 6WG

Plot 6WH

Plot 6WI

Plot 6WJ

Plot 6WK

Plot 6WL

Plot 6WM

Plot 6WN

Plot 6WO

Plot 6WP

Plot 6WQ

Plot 6WR

Plot 6WS

Plot 6WT

Plot 6WU

Plot 6WV

Plot 6WW

Plot 6WX

Plot 6WY

Plot 6WZ

Plot 6XA

Plot 6XB

Plot 6XC

Plot 6XD

Plot 6XE

Plot 6XF

Plot 6XG

Plot 6XH

Plot 6XI

Plot 6XJ

Plot 6XK

Plot 6XL

Plot 6XM

Plot 6XN

Plot 6XO

Plot 6XP

Plot 6XQ

Plot 6XR

Plot 6XS

Plot 6XT

Plot 6XU

Plot 6XV

Plot 6XW

Plot 6XX

Plot 6XY

Plot 6XZ

Plot 6YA

Plot 6YB

Plot 6YC

Plot 6YD

Plot 6YE

Plot 6YF

Plot 6YG

Plot 6YH

Plot 6YI

Plot 6YJ

Plot 6YK

Plot 6YL

Plot 6YM

Plot 6YN

Plot 6YO

Plot 6YP

Plot 6YQ

Plot 6YR

Plot 6YS

Plot 6YT

Plot 6YU

Plot 6YV

Plot 6YW

Plot 6YX

Plot 6YY

Plot 6YZ

Plot 6ZA

Plot 6ZB

Plot 6ZC

Plot 6ZD

Plot 6ZE

Plot 6ZF

Plot 6ZG

Plot 6ZH

Plot 6ZI

Plot 6ZJ

Plot 6ZK

Plot 6ZL

Plot 6ZM

Plot 6ZN

Plot 6ZO

Plot 6ZP

Plot 6ZQ

Plot 6ZR

Plot 6ZS

Plot 6ZT

Plot 6ZU

Plot 6ZV

Plot 6ZW

Plot 6ZX

Plot 6ZY

Plot 6ZZ

PROJECT

**FUSRAP/SMS**

HOLE NO.

**300 4152**

G FORM 5056-R. AUG 94

(Proponent: CECW-EG)

| FUSRAP/3403             |                                 | Chris Lock                                 |            | Sep 4/52        |                                                    |
|-------------------------|---------------------------------|--------------------------------------------|------------|-----------------|----------------------------------------------------|
| DESCRIPTION OF MATERIAL |                                 | FIELD RECORDING DATA                       |            | LABORATORY DATA |                                                    |
| 1                       | COVER                           |                                            |            |                 |                                                    |
| 1                       | Slty, Brk, w/lt<br>Brown Black. | 8620<br>Counts<br>N-5<br>O-0<br>PPM<br>PST | 2.9<br>2.0 | SLTY<br>4152    | SAMPLE taken at<br>top 6"                          |
| 2                       |                                 |                                            |            | 144H.           |                                                    |
| 3                       | LEW clay<br>Green               | 8063<br>Counts<br>N-5<br>O-0<br>PPM<br>PST | 1.5<br>2.0 | SLTY<br>4206    | SAMPLE taken at<br>top 6"                          |
| 4                       |                                 |                                            |            | 14.8H.          |                                                    |
| 5                       | Slty LOW clay<br>Brown.         | 8321<br>Counts<br>N-5<br>O-0<br>PPM<br>PST | 0.8<br>2.0 | SLTY<br>4260    | SAMPLE taken at<br>top 6"<br>Metre sample<br>taken |
| 6                       |                                 |                                            |            | 1421            |                                                    |
| 7                       | T.D<br>6.26t                    | 1430                                       | hrs        | 11/2/99         |                                                    |

FUSRAP/3403

SEP 4/52



| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |            |  | DISTRICT <u>31 Louis</u>                                           |  | HOLE NUMBER <u>30-416</u>                     |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|--------------------------------------------------------------------|--|-----------------------------------------------|--|
| 1. COMPANY NAME <u>LT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |            |  | 2. DRILL SUBCONTRACTOR <u>Geotechnics</u>                          |  | SHEET <u>1</u> OF <u>2</u>                    |  |
| 3. PROJECT <u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  | 4. LOCATION <u>PIAN 6 E (McKinley)</u>                             |  |                                               |  |
| 5. NAME OF DRILLER <u>KEW Bassor</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL                             |  |                                               |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>McLan 2 1/2" Auger</u><br><u>2 1/2" spoon</u>                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  | 8. HOLE LOCATION                                                   |  |                                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |  | 9. SURFACE ELEVATION                                               |  |                                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |  | 10. DATE STARTED <u>11/8/95</u>                                    |  | 11. DATE COMPLETED <u>11/8/95</u>             |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |            |  | 13. DEPTH GROUNDWATER ENCOUNTERED <u>N/A</u>                       |  |                                               |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |            |  | 14. DEPTH TO WATER <u>DM</u> ELAPSED TIME AFTER DRILLING COMPLETED |  |                                               |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u>            |  |                                               |  |
| 16. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | DISTURBED  |  | UNDISTURBED                                                        |  | 17. TOTAL NUMBER OF CORE BOXES                |  |
| 18. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | VOC        |  | METALS                                                             |  | OTHER (SPECIFY) <u>RAO</u>                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |  |                                                                    |  | 19. TOTAL CORE RECOVERY                       |  |
| 20. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | BACKFILLED |  | MONITORING WELL                                                    |  | 21. SIGNATURE OF INSPECTOR <u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |            |  | SCALE:                                                             |  |                                               |  |
| <div style="text-align: right; margin-bottom: 20px;">↑ N</div> <div style="text-align: center; margin-bottom: 20px;">McKinley Iron</div> <div style="display: flex; justify-content: space-around; margin-bottom: 20px;"> <div style="text-align: center;">SLD<br/>4152</div> <div style="text-align: center;">SLD<br/>4160</div> </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">MADICKRODT</div> <div style="text-align: center;">PIAN 6 E</div> </div> |  |            |  |                                                                    |  |                                               |  |
| PROJECT <u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |  |                                                                    |  | HOLE NO. <u>4160</u>                          |  |

| PROJECT: FUSRAP/SLOS |                               | INSPECTOR: Chris Dock                      |                                 | DATE: 11/8/99            |                           | SPD 4160 |
|----------------------|-------------------------------|--------------------------------------------|---------------------------------|--------------------------|---------------------------|----------|
| DEPTH<br>ft          | DESCRIPTION OF MATERIALS      | FIELD SCREENING<br>RESULTS                 | CLAYTON SAMPLE<br>OR EQUIV. NO. | ANALYTICAL<br>SAMPLE NO. | REMARKS                   |          |
| 1                    | COARSE<br>SAND, wood<br>Brown | 7224<br>counts<br>Net<br>0.0<br>PPH<br>PID | 1.0<br>2.0                      | 5120<br>4160             | Sample taken at<br>top 6" |          |
| 2                    |                               |                                            |                                 | 083914                   |                           |          |
| 3                    | SAND, gray<br>Brown           | 7712<br>counts<br>Net<br>0.0<br>PPH<br>PID | 1.8<br>2.0                      | 5120<br>4214             | Sample taken at<br>top 6" |          |
| 4                    |                               |                                            |                                 | 084214                   |                           |          |
| 5                    | SAND,<br>TAN-Brown            | 7853<br>counts<br>Net<br>0.0<br>PPH<br>PID | 1.0<br>2.0                      | 5120<br>4265             | Sample taken at<br>top 6" |          |
| 6                    |                               |                                            |                                 | 084714                   |                           |          |
|                      | T.D.                          | 63 ft                                      | 0                               | 855                      | his 11/8/99               |          |

FUSRAP/SLOS

SPD 4160

| HTRW DRILLING LOG                                                                                     |  |            |  | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER <u>SD 4347</u>                      |  |
|-------------------------------------------------------------------------------------------------------|--|------------|--|----------------------------------------------------------------------------|--|-------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                              |  |            |  | 2. DRILL SUBCONTRACTOR<br><u>Geo-R. Anclon</u>                             |  | SHEET <u>1</u> OF <u>2</u>                      |  |
| 3. PROJECT<br><u>FUSRAP/SD</u>                                                                        |  |            |  | 4. LOCATION<br><u>McKinley Iron</u>                                        |  |                                                 |  |
| 5. NAME OF DRILLER<br><u>Kevin Bossler</u>                                                            |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                    |  |                                                 |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hellb- 3 1/2" Auger</u><br><u>SD 4347</u> |  |            |  | 8. HOLE LOCATION                                                           |  |                                                 |  |
|                                                                                                       |  |            |  | 9. SURFACE ELEVATION                                                       |  |                                                 |  |
|                                                                                                       |  |            |  | 10. DATE STARTED<br><u>2/21/02</u>                                         |  | 11. DATE COMPLETED<br><u>2/21/02</u>            |  |
| 12. OVERBURDEN THICKNESS                                                                              |  |            |  | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                                 |  |
| 13. DEPTH DRILLED INTO ROCK                                                                           |  |            |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                 |  |
| 14. TOTAL DEPTH OF HOLE                                                                               |  |            |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                 |  |
| 16. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                  |  | DISTURBED  |  | UNDISTURBED                                                                |  | 18. TOTAL NUMBER OF CORE BOXES                  |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                     |  | VOC        |  | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAO</u>                   |  |
| 22. DISPOSITION OF HOLE                                                                               |  | BACKFILLED |  | MONITORING WELL                                                            |  | 21. SIGNATURE OF INSPECTOR<br><u>Chris Fink</u> |  |
| LOCATION SKETCH/COMMENTS                                                                              |  |            |  | SCALE:                                                                     |  |                                                 |  |
|                                                                                                       |  |            |  |                                                                            |  |                                                 |  |



422.8

| HTRW DRILLING LOG |            |                                                                                 |                                            |                            |                       |
|-------------------|------------|---------------------------------------------------------------------------------|--------------------------------------------|----------------------------|-----------------------|
| PROJECT           |            | INSPECTOR                                                                       |                                            | HOLE NUMBER                |                       |
| FUSRAP/SLOS       |            | Chris Locha                                                                     |                                            | SLD 4347                   |                       |
| LOG NO.           | DEPTH (ft) | DESCRIPTION OF MATERIALS                                                        | FIELD LOGGING RESULTS                      | GEOTECH SAMPLE OR CORE NO. | ANALYTICAL SAMPLE NO. |
| SP<br>GP          |            | COVER                                                                           |                                            |                            |                       |
|                   | 1          | SAND, GRAVEL (SP)(GP)<br>Black, soft, loose,<br>Dry. Fill<br>GRAVEL 40% Angular | 6664<br>counts<br>NFI<br>0.0<br>p/m<br>PID |                            |                       |
|                   | 2          |                                                                                 |                                            |                            | SLD<br>43-17<br>1957  |
|                   | 3          | TID                                                                             | 2.1 ft                                     | 1405                       | 115                   |
|                   |            |                                                                                 |                                            |                            | 2 1/2 bu<br>Dura: 5   |

FUSRAP/SLOS

SLD 4347

| HTRW DRILLING LOG                                                                                       |  |            |  | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER<br><u>SEP 48348</u>               |  |
|---------------------------------------------------------------------------------------------------------|--|------------|--|----------------------------------------------------------------------------|--|-----------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                |  |            |  | 2. DRILL SUBCONTRACTOR<br><u>Geotechnics</u>                               |  | SHEET <u>1</u> OF <u>2</u>                    |  |
| 3. PROJECT<br><u>FUSRAP/SIDS</u>                                                                        |  |            |  | 4. LOCATION<br><u>McKinley Tr.</u>                                         |  |                                               |  |
| 5. NAME OF DRILLER<br><u>Kevin Basile</u>                                                               |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                    |  |                                               |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Stem Auger</u><br><u>Split Spool</u> |  |            |  | 8. HOLE LOCATION                                                           |  |                                               |  |
|                                                                                                         |  |            |  | 9. SURFACE ELEVATION                                                       |  |                                               |  |
|                                                                                                         |  |            |  | 10. DATE STARTED<br><u>2/21/00</u>                                         |  | 11. DATE COMPLETED<br><u>2/21/00</u>          |  |
| 12. OVERBURDEN THICKNESS                                                                                |  |            |  | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                               |  |
| 13. DEPTH DRILLED INTO ROCK                                                                             |  |            |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                               |  |
| 14. TOTAL DEPTH OF HOLE                                                                                 |  |            |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                               |  |
| 16. GEOTECHNICAL SAMPLES<br><u>1</u>                                                                    |  | DISTURBED  |  | UNDISTURBED                                                                |  | 18. TOTAL NUMBER OF CORE BOXES                |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                       |  | VOC        |  | METALS                                                                     |  | OTHER (SPECIFY)<br><u>PAD</u>                 |  |
|                                                                                                         |  |            |  |                                                                            |  | 21. TOTAL CORE RECOVERY                       |  |
| 22. DISPOSITION OF HOLE                                                                                 |  | BACKFILLED |  | MONITORING WELL                                                            |  | 23. SIGNATURE OF INSPECTOR<br><u>Jim Felt</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                |  |            |  | SCALE:                                                                     |  |                                               |  |
|                                                                                                         |  |            |  |                                                                            |  |                                               |  |
| PROJECT <u>FUSRAP/SIDS</u>                                                                              |  |            |  |                                                                            |  | HOLE NO.<br><u>SEP 48348</u>                  |  |

| HTRW DRILLING LOG      |             |                                                                   |                                           |                                          |                                 | WELL NUMBER<br>SLD 4348 |
|------------------------|-------------|-------------------------------------------------------------------|-------------------------------------------|------------------------------------------|---------------------------------|-------------------------|
| PROJECT<br>FUSRAP/SUDS |             |                                                                   | INSPECTOR<br>Chris Locke                  |                                          |                                 | DATE<br>2 OCT 2         |
| CLAY<br>NO.            | DEPTH<br>FT | DESCRIPTION OF MATERIALS<br>NO.                                   | FIELD LOGGING<br>RESULTS<br>NO.           | GEOTECH SAMPLE<br>OR CORE BOX NO.<br>NO. | ANALYTICAL<br>SAMPLE NO.<br>NO. | REMARKS<br>NO.          |
| GW<br>SU               | 1           | CONCRETE, CURB                                                    |                                           |                                          |                                 |                         |
|                        |             | GRAVEL, SAND,<br>Brown, Sift, Loose<br>Dry<br>GRAVEL ~ 50% ANGLES | 6773<br>COUNT<br>NAT<br>0.0<br>PPT<br>PPT |                                          |                                 | 2.0<br>2.0 Recovery     |
|                        | 2           |                                                                   |                                           |                                          | NO<br>4348<br>13484             |                         |
|                        | 3           | TID.                                                              | 2.1/1                                     | 1350                                     | NO                              | 2/2/00<br>Drum: 5       |
|                        | 4           |                                                                   |                                           |                                          |                                 |                         |

PROJECT FUSRAP/SUDS

WELL NO. SLD 4348



| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |            |  | DISTRICT <u>S1</u> <u>Low</u>                                              |  | HOLE NUMBER<br><u>SND 4349</u>                   |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|----------------------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |  | 2. DRILL SUBCONTRACTOR<br><u>N/A</u>                                       |  | SHEET <u>1</u> OF <u>2</u>                       |  |
| 3. PROJECT<br><u>FUSRAP/SND</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  | 4. LOCATION<br><u>McKinley Tron</u>                                        |  |                                                  |  |
| 5. NAME OF DRILLER<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>N/A</u>                       |  |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>HAND Auger</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |            |  | 8. HOLE LOCATION                                                           |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  | 9. SURFACE ELEVATION                                                       |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  | 10. DATE STARTED<br><u>2/21/02</u>                                         |  | 11. DATE COMPLETED<br><u>2/21/02</u>             |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |  | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                  |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |            |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                  |  |
| 15. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | DISTURBED  |  | UNDISTURBED                                                                |  | 18. TOTAL NUMBER OF CORE BOXES                   |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | VOC        |  | METALS                                                                     |  | OTHER (SPECIFY)<br><u>PAH</u>                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  |                                                                            |  | 21. TOTAL CORE RECOVERY                          |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | BACKFILLED |  | MONITORING WELL                                                            |  | 21. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |  | SCALE:                                                                     |  |                                                  |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; left: 10%; border: 1px solid black; width: 80%; height: 80%;"></div> <div style="position: absolute; top: 15%; left: 20%; font-size: 2em;">BUILDING</div> <div style="position: absolute; top: 70%; left: 30%;">SND 4349</div> <div style="position: absolute; top: 70%; left: 50%;">SND 4350</div> <div style="position: absolute; top: 10%; right: 10%; text-align: center;"> <div style="font-size: 2em;">↑</div> <div>N</div> </div> </div> |  |            |  |                                                                            |  |                                                  |  |
| ECT <u>FUSRAP/SND</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |            |  |                                                                            |  | HOLE NO.<br><u>SND 4349</u>                      |  |

# HTRW DRILLING LOG

| PROJECT     |                                                           | INSPECTOR                                  |            | HOLE NUMBER     |                    |
|-------------|-----------------------------------------------------------|--------------------------------------------|------------|-----------------|--------------------|
| FUSRAP/SIDS |                                                           | Chris Locke                                |            | SID 4349        |                    |
| DEPTH       | DESCRIPTION OF MATERIALS                                  | FIELD LOGGING                              | DATE/DEPTH | ANALYTICAL      | REMARKS            |
| ft          | ft                                                        | ft                                         | ft         | ft              | ft                 |
| 1           | COVER<br>SAND. GRAVEL, (SPXGR)<br>Black, Stiff, Loose, dy | 7440.<br>COUNT<br>NAT<br>O.D<br>PPT<br>PID |            |                 | N/A HAND ASST      |
| 2           |                                                           |                                            |            | 4349<br>1334 ft |                    |
| 3           |                                                           | T.D 2.1 ft                                 | 1340       | hd              | 2/21/00<br>Drum: S |
| 4           |                                                           |                                            |            |                 |                    |

PROJECT FUSRAP/SIDS

SID 4351  
4349

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |  | DISTRICT <u>St Louis</u>                                                |  | HOLE NUMBER <u>SND 4350</u>                   |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|-------------------------------------------------------------------------|--|-----------------------------------------------|--|
| 1. COMPANY NAME <u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |            |  | 2. DRILL SUBCONTRACTOR <u>GC. N/A</u>                                   |  | SHEET <u>1</u> OF <u>2</u>                    |  |
| 3. PROJECT <u>FUSRAP/SND</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            |  | 4. LOCATION <u>McKinley Tru</u>                                         |  |                                               |  |
| 5. NAME OF DRILLER <u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>N/A</u>                       |  |                                               |  |
| 7. SIZE AND TYPE OF DRILLING AND SAMPLING EQUIPMENT <u>HAND Auger</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |            |  | 8. HOLE LOCATION                                                        |  |                                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |            |  | 9. SURFACE ELEVATION                                                    |  |                                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |            |  | 10. DATE STARTED <u>2/22/00</u>                                         |  | 11. DATE COMPLETED <u>2/21/00</u>             |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |            |  | 13. DEPTH GROUNDWATER ENCOUNTERED <u>N/A</u>                            |  |                                               |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |            |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u> |  |                                               |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u>                 |  |                                               |  |
| 16. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | DISTURBED  |  | UNDISTURBED                                                             |  | 18. TOTAL NUMBER OF CORE BOXES                |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | VOC        |  | METALS                                                                  |  | OTHER (SPECIFY) <u>RAD</u>                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |            |  |                                                                         |  | 21. TOTAL CORE RECOVERY                       |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | BACKFILLED |  | MONITORING WELL                                                         |  | 23. SIGNATURE OF INSPECTOR <u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |            |  | SCALE:                                                                  |  |                                               |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; right: 10%; text-align: center;"> <u>N</u><br/>↑ </div> <div style="position: absolute; top: 40%; left: 30%;"> <u>Building</u> </div> <div style="position: absolute; top: 65%; right: 10%;"> <u>SND</u><br/><u>4352</u> </div> <div style="position: absolute; top: 75%; left: 45%;"> <u>SND</u><br/><u>4350</u> </div> <div style="position: absolute; top: 75%; left: 60%;"> <u>SND 4351</u> </div> <div style="position: absolute; bottom: 10%; left: 30%;"> <u>Mallick Road</u> </div> <div style="position: absolute; bottom: 10%; right: 10%;"> <u>Pipe</u> </div> </div> |  |            |  |                                                                         |  |                                               |  |
| ECT <u>FUSRAP/SND</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |            |  | HOLE NO. <u>SND 4350</u>                                                |  |                                               |  |

| HTRW DRILLING LOG     |                 |                                                              |                                             |                                         |                                 | WELL NUMBER<br>SWD 4350                  |
|-----------------------|-----------------|--------------------------------------------------------------|---------------------------------------------|-----------------------------------------|---------------------------------|------------------------------------------|
| PROJECT<br>FUSRAP/SWS |                 |                                                              | INSPECTOR<br>Chris Locke                    |                                         | WELL<br>2 DEPTH 2               |                                          |
| DEPTH<br>FEET         | DEPTH<br>METERS | DESCRIPTION OF MATERIALS<br>LOG                              | FIELD SCREENING<br>RESULTS<br>DPM           | DEATHEN SAMPLE<br>OR CORE DEPTH<br>FEET | ANALYTICAL<br>SAMPLE NO.<br>LIT | REMARKS                                  |
| SP<br>GP              | 1               | COVER<br>SAND, GRAVEL (SPXGP)<br>Black, Loose, soft,<br>Dry. | 7823<br>Counts<br>NAI<br>0.0<br>173M<br>PID |                                         |                                 | N/A HAND<br>Anger                        |
|                       | 2               |                                                              |                                             |                                         | SWD<br>4350<br>1330             |                                          |
|                       | 3               | T.D 2.1 ft                                                   |                                             | 1333hrs                                 | 2/2/0                           | Drum: 5<br>7923 counts<br>N=I Background |

PROJECT  
FUSRAP/SWS

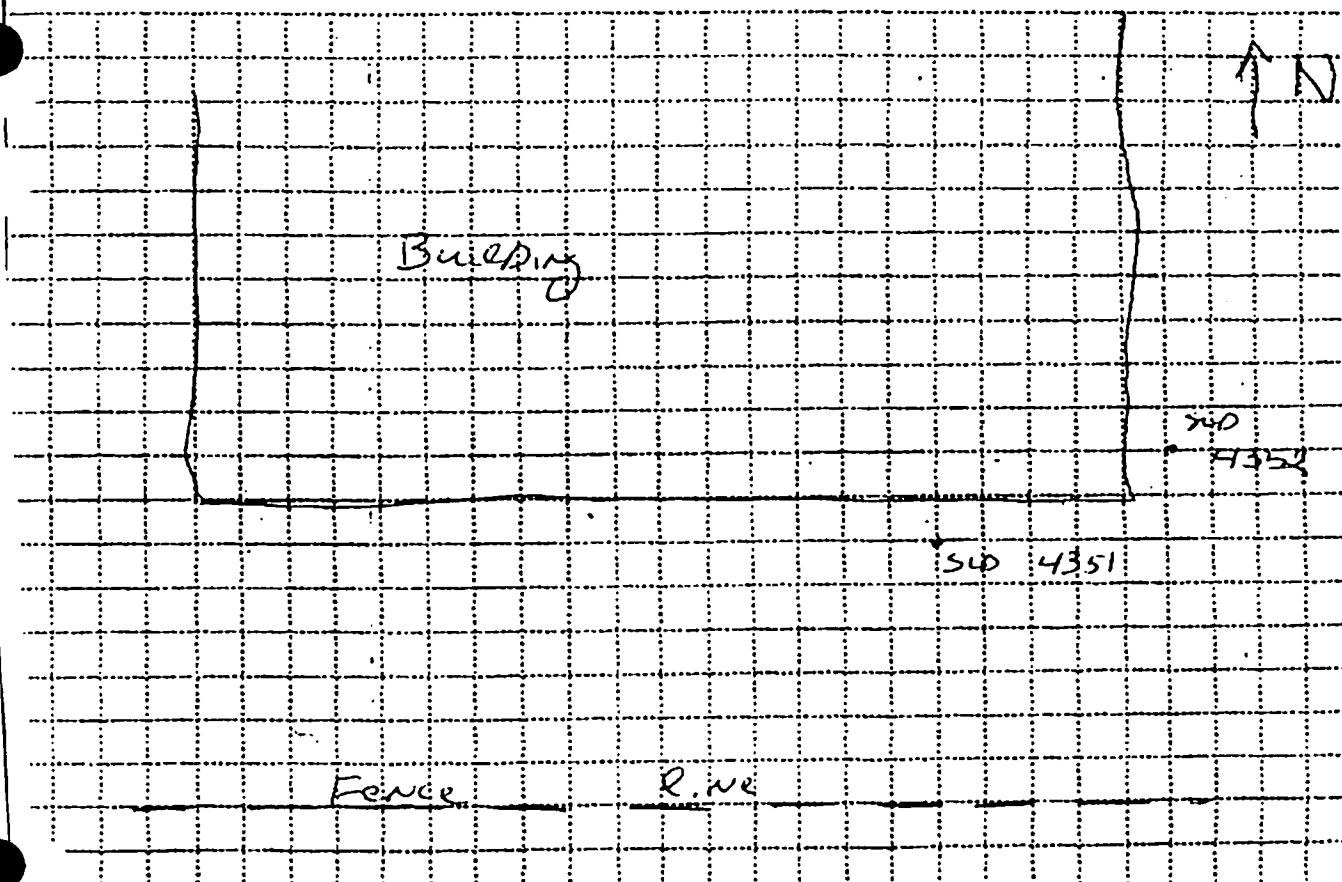
WELL NO  
SWD 4350



| HTRW DRILLING LOG                                                       |            | DISTRICT <u>SL. Lewis</u>                                               |                                | HOLE NUMBER <u>SLP 4351</u>                   |                 |
|-------------------------------------------------------------------------|------------|-------------------------------------------------------------------------|--------------------------------|-----------------------------------------------|-----------------|
| 1. COMPANY NAME <u>IT Corporation</u>                                   |            | 2. DRILL SUBCONTRACTOR <u>N/A</u>                                       |                                | SHEET <u>1</u> OF <u>2</u>                    |                 |
| 3. PROJECT <u>FUSRAP/SLP</u>                                            |            | 4. LOCATION <u>McKenney IRON</u>                                        |                                |                                               |                 |
| 5. NAME OF DRILLER <u>KE NIA</u>                                        |            | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>N/A</u>                       |                                |                                               |                 |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>HAND Auger</u> |            | 8. HOLE LOCATION                                                        |                                |                                               |                 |
|                                                                         |            | 9. SURFACE ELEVATION                                                    |                                |                                               |                 |
|                                                                         |            | 10. DATE STARTED <u>2/21/00</u>                                         |                                | 11. DATE COMPLETED <u>2/21/00</u>             |                 |
| 12. OVERBURDEN THICKNESS                                                |            | 13. DEPTH OF GROUNDWATER ENCOUNTERED <u>N/A</u>                         |                                |                                               |                 |
| 14. DEPTH DRILLED INTO ROCK                                             |            | 15. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u> |                                |                                               |                 |
| 16. TOTAL DEPTH OF HOLE                                                 |            | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u>                 |                                |                                               |                 |
| 18. GEOTECHNICAL SAMPLES                                                | DISTURBED  | UNDISTURBED                                                             | 19. TOTAL NUMBER OF CORE BOXES |                                               |                 |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                       | VOC        | METALS                                                                  | OTHER (SPECIFY) <u>RAD</u>     | OTHER (SPECIFY)                               | OTHER (SPECIFY) |
| 21. DISPOSITION OF HOLE                                                 | BACKFILLED | MONITORING WELL                                                         | OTHER (SPECIFY)                | 22. SIGNATURE OF INSPECTOR <u>[Signature]</u> |                 |
| 23. TOTAL CORE RECOVERY                                                 |            |                                                                         |                                |                                               |                 |

LOCATION SKETCH/COMMENTS

SCALE:



PROJECT FUSRAP/SLP

HOLE NO. SLP 4351

# HTRW DRILLING LOG

4351

PROJECT FUSRAP/SUP

INSPECTOR Chris Locke

WELL NUMBER SLD 4349  
WELL ID 2 DEPTH 2

| DEPTH<br>ft | DESCRIPTION OF MATERIALS<br>see                               | FIELD RECORDING<br>ALPHA FT<br>see          | GRADED SAMPLE<br>OF CORE SEE NO.<br>see | ANALYTICAL<br>SAMPLE NO.<br>see | REMARKS<br>see                                      |
|-------------|---------------------------------------------------------------|---------------------------------------------|-----------------------------------------|---------------------------------|-----------------------------------------------------|
| 1           | COVER<br>SAND. GRAVEL (SP)(GP)<br>BLACK, soft, loose,<br>Dry. | 7669<br>COUNTS<br>NAI<br>0.5<br>PPM<br>P210 |                                         |                                 | N/A HAND Auger                                      |
| 2           |                                                               |                                             |                                         | SLD<br>4351<br>1320hr           |                                                     |
| 3           | TID 2.1 ft                                                    |                                             | 1325 hrs                                |                                 | 2/21/00<br>Drum: 5<br>6400 counts<br>NAI Background |

6399  
6400

PROJECT FUSRAP/SUP

WELL NO SLD 4349  
4351

# HTRW DRILLING LOG

DISTRICT

St. Louis

HOLE NUMBER  
SLD 4352

1. COMPANY NAME

IT Corporation

2. DRILL SUBCONTRACTOR

N/A

SHEET 1 OF 2

3. PROJECT

FUSRAP/SD

4. LOCATION

McKenzie IROR

5. NAME OF DRILLER

N/A

6. MANUFACTURER'S DESIGNATION OF DRILL

N/A

7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT

1/2" AND Auger

8. HOLE LOCATION

9. SURFACE ELEVATION

10. DATE STARTED

2/21/00

11. DATE COMPLETED

2/21/00

12. OVERBURDEN THICKNESS

13. DEPTH GROUNDWATER ENCOUNTERED

N/A

14. DEPTH DRILLED INTO ROCK

15. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED

N/A

16. TOTAL DEPTH OF HOLE

17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)

N/A

18. GEOTECHNICAL SAMPLES

0

19. DISTURBED

20. UNDISTURBED

21. TOTAL NUMBER OF CORE BOXES

22. SAMPLES FOR CHEMICAL ANALYSIS

VOC

METALS

OTHER (SPECIFY)

OTHER (SPECIFY)

OTHER (SPECIFY)

23. TOTAL CORE RECOVERY

24. DISPOSITION OF HOLE

BACKFILLED

MONITORING WELL

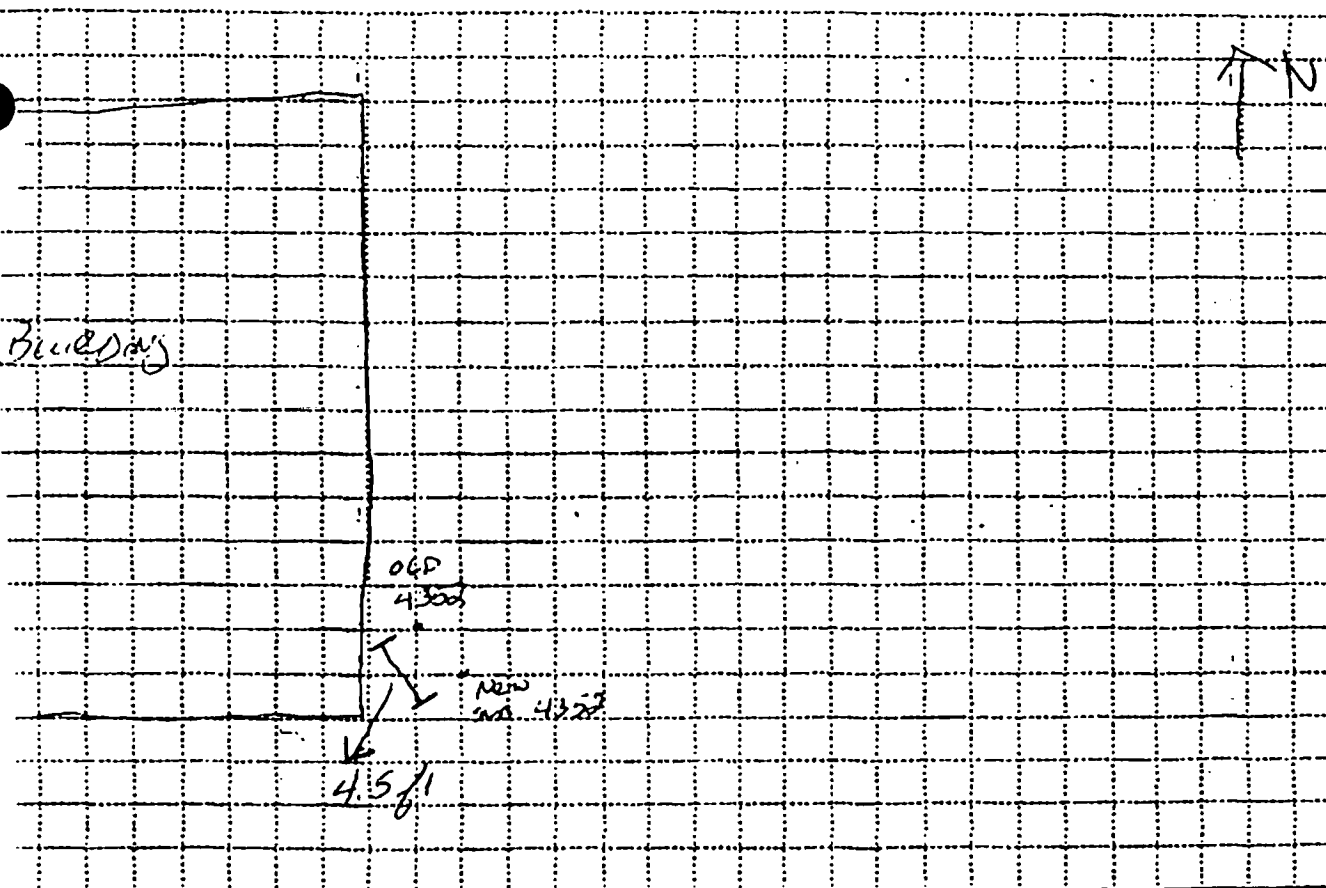
OTHER (SPECIFY)

25. SIGNATURE OF INSPECTOR

[Signature]

LOCATION SKETCH/COMMENTS

SCALE:



JECT

FUSRAP/NO.

HOLE NO.

SLD 4352

# HTRW DRILLING LOG

| PROJECT <i>FurRAP/505</i> |                 | INSPECTOR <i>Chris Loop</i>                                                       |                                            | WELL NUMBER<br><i>SLD 4352</i>  |                          | WELL<br><i>2</i> SHEET <i>8</i> |                                                     |
|---------------------------|-----------------|-----------------------------------------------------------------------------------|--------------------------------------------|---------------------------------|--------------------------|---------------------------------|-----------------------------------------------------|
| DEPTH<br>FEET             | DEPTH<br>METERS | DESCRIPTION OF MATERIALS                                                          | FIELD SCREENING<br>RESULTS                 | DATE/TIME SAMPLE<br>OR CORE RUN | ANALYTICAL<br>SAMPLE NO. | ANALYTICAL<br>RESULTS           | REMARKS                                             |
|                           |                 | COVER                                                                             |                                            |                                 |                          |                                 |                                                     |
|                           | 1               | FAT clay with gravel<br>GRAVELLY CLAY, Angular.<br>Brown, s.l./l., Loose,<br>D.S. | 5614<br>counts<br>NCT<br>010<br>ppm<br>PIT |                                 |                          |                                 | N/A HAND ASSESS                                     |
|                           | 2               |                                                                                   |                                            |                                 | 4352<br>09:41            |                                 |                                                     |
|                           | 3               | SAND, gravel<br>(SP) (GP)<br>Black, Loose, D.S. RY                                | 5427<br>counts<br>NCT<br>010<br>ppm<br>PIT |                                 |                          |                                 | N/A HAND ASSESS                                     |
|                           | 4               |                                                                                   |                                            |                                 | 240<br>4485              |                                 |                                                     |
|                           | 5               |                                                                                   |                                            |                                 | 09:05                    |                                 |                                                     |
|                           | 6               | T.D. 4.1                                                                          | 64                                         | 0910 1/2                        |                          |                                 | 2/21/00<br>Drum: 5<br>5125 counts NCT<br>BACKGROUND |

5125

4352, 4485

SLD 4352



| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            |  | DISTRICT <u>St Louis</u>                                                |  | HOLE NUMBER <u>SLD 4353</u>       |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|-------------------------------------------------------------------------|--|-----------------------------------|--|
| 1. COMPANY NAME <u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  | 2. DRILL SUBCONTRACTOR <u>Geotechnics</u>                               |  | SHEET <u>1</u> OF <u>2</u>        |  |
| 3. PROJECT <u>FUSRAP/SLD</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  | 4. LOCATION <u>McKinley Iron</u>                                        |  |                                   |  |
| 5. NAME OF DRILLER <u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>N/A</u>                       |  |                                   |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>HAND PUMP</u>                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |  | 8. HOLE LOCATION                                                        |  |                                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |  | 9. SURFACE ELEVATION                                                    |  |                                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |  | 10. DATE STARTED <u>2/21/00</u>                                         |  | 11. DATE COMPLETED <u>2/21/00</u> |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |  | 13. DEPTH GROUNDWATER ENCOUNTERED <u>N/A</u>                            |  |                                   |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |            |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u> |  |                                   |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |            |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u>                 |  |                                   |  |
| 15. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | DISTURBED  |  | UNDISTURBED                                                             |  | 18. TOTAL NUMBER OF CONE BOXES    |  |
| 19. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | VOC        |  | METALS                                                                  |  | OTHER (SPECIFY) <u>RAI</u>        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |  |                                                                         |  | 21. TOTAL CORE RECOVERY           |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | BACKFILLED |  | MONITORING WELL                                                         |  | 23. SIGNATURE OF INSPECTOR        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |  |                                                                         |  |                                   |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |  | SCALE:                                                                  |  |                                   |  |
| <div style="position: absolute; top: 10px; right: 10px; text-align: center;"> <u>N</u><br/>↑         </div> <div style="position: absolute; bottom: 10px; left: 10px;"> <u>Building</u><br/><br/> <div style="border: 1px solid black; width: 150px; height: 100px; margin: 10px auto;"></div> <div style="position: absolute; bottom: 10px; left: 10px;"> <u>SLD 4352</u> </div> <div style="position: absolute; bottom: 10px; right: 10px;"> <u>SLD 4353</u> </div> </div> |  |            |  |                                                                         |  |                                   |  |
| PROJECT <u>FUSRAP/SLD</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |  |                                                                         |  | HOLE NO. <u>SLD 4353</u>          |  |

# HTRW DRILLING LOG

| PROJECT     |                                                              | INSPECTOR                                  |                                | HOLE NUMBER           |                                            |
|-------------|--------------------------------------------------------------|--------------------------------------------|--------------------------------|-----------------------|--------------------------------------------|
| FUSRAP/SIDS |                                                              | Chris Locke                                |                                | SEP 4353              |                                            |
| DEPTH       | DESCRIPTION OF MATERIALS                                     | FIELD SCREENING RESULTS                    | CERTIFIED SAMPLE OR CORE DEPTH | ANALYTICAL SAMPLE NO. | REMARKS                                    |
| 1           | COARSE<br>SAND, GRAVEL (SPXGP)<br>BLACK, soft, LOOSE,<br>Dry | 5309<br>COUNTS<br>NFI<br>PPM<br>PID        |                                |                       | N/A HAND ASSESS                            |
| 2           |                                                              |                                            |                                | SEP 4353<br>091341    |                                            |
| 3           | SAND, GRAVEL (SP)(GP)<br>BLACK, soft, LOOSE,<br>Dry.         | 5256<br>COUNTS<br>NFI<br>DID<br>PPM<br>PID |                                |                       | N/A HAND ASSESS                            |
| 4           |                                                              |                                            |                                | SEP 4353<br>092041    |                                            |
| 5           | TID                                                          | 4.1                                        | ft                             | 0925                  | his 2/21/00<br>DIN 5<br>5215 counts<br>NFI |

FUSRAP/SIDS

SEP 4353

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |                                      | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER<br><u>SD 4355</u>                    |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--------------------------------------|----------------------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            | 2. DRILL SUBCONTRACTOR<br><u>Q/A</u> |                                                                            |  | SHEET <u>1</u> OF <u>2</u>                       |  |
| 3. PROJECT<br><u>FUSRAP/SDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |            |                                      | 4. LOCATION<br><u>McKinley IRDP</u>                                        |  |                                                  |  |
| 5. NAME OF DRILLER<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |                                      | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>N/A</u>                       |  |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hand Auger</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |                                      | 8. HOLE LOCATION                                                           |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |            |                                      | 9. SURFACE ELEVATION                                                       |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |            |                                      | 10. DATE STARTED<br><u>2/2/00</u>                                          |  | 11. DATE COMPLETED<br><u>2/2/00</u>              |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |                                      | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |                                      | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                  |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |                                      | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                  |  |
| 16. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | DISTURBED  |                                      | UNDISTURBED                                                                |  | 17. TOTAL NUMBER OF CORE BOXES                   |  |
| 18. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | VOC        |                                      | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAD</u>                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |            |                                      |                                                                            |  | 19. TOTAL CORE RECOVERY                          |  |
| 20. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | SACRIFICED |                                      | MONITORING WELL                                                            |  | 21. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |            |                                      |                                                                            |  |                                                  |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |                                      | SCALE:                                                                     |  |                                                  |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10px; right: 10px; text-align: center;"> <u>N</u><br/>↑ </div> <div style="position: absolute; left: 10px; top: 50px;"> <u>Building</u> </div> <div style="position: absolute; left: 25%; top: 70%;"> <u>SD 4352</u> </div> <div style="position: absolute; left: 45%; top: 70%;"> <u>SD 4353</u> </div> <div style="position: absolute; left: 65%; top: 70%;"> <u>SD 4355</u> </div> <div style="position: absolute; left: 35%; top: 85%;"> <u>Fence Line</u> </div> </div> |  |            |                                      |                                                                            |  |                                                  |  |
| PROJECT <u>FUSRAP/SDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |            |                                      |                                                                            |  | HOLE NO. <u>SD 4355</u>                          |  |

# HTRW DRILLING LOG

PROJECT FUSRAP/SUS

INSPECTOR Chris Lock

WELL NUMBER SID 4355

DATE 2 MONTH 2

| DEPTH<br>FEET | DEPTH<br>METERS | DESCRIPTION OF MATERIALS<br>FACIES                       | FIELD SCREENING<br>RESULTS                  | DETERMINED SAMPLE<br>OF CORE SIZE NO. | ANALYTICAL<br>SAMPLE NO. | REMARKS                                   |
|---------------|-----------------|----------------------------------------------------------|---------------------------------------------|---------------------------------------|--------------------------|-------------------------------------------|
|               |                 | COVER                                                    |                                             |                                       |                          |                                           |
|               | 1               | SAND, GRAVEL (SP/BU)<br>BLACK, soft, loose,<br>Dry, F.M. | 12496<br>COUNTS<br>NAT<br>DIO<br>PPM<br>PIP |                                       |                          | N/A HAND ASSESS                           |
|               | 2               |                                                          |                                             |                                       | SID<br>4355<br>1002hr    |                                           |
|               | 3               |                                                          | 6457<br>COUNTS<br>NAT<br>DIO<br>PPM<br>PIP  |                                       |                          | N/A HAND<br>ASSESS                        |
|               | 4               |                                                          |                                             |                                       | SID<br>4355<br>1002hr    |                                           |
|               |                 | T.D. 4.1 hrs                                             |                                             | 1015hrs                               | 2/21/00                  | Drill: 5<br>6546 counts<br>NAT Background |

SP  
GP

6546

PROJECT FUSRAP/SUS

WELL NO. SID 4355



| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |            |  | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER<br><u>SD 4356</u>                    |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|----------------------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |  | 2. DRILL SUBCONTRACTOR<br><u>N/A</u>                                       |  | SHEET <u>1</u> OF <u>2</u>                       |  |
| 3. PROJECT<br><u>FLSRAP/SDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |            |  | 4. LOCATION<br><u>McKinley IRON</u>                                        |  |                                                  |  |
| 5. NAME OF DRILLER<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            |  | 6. MANUFACTURER/DESIGNATION OF DRILL<br><u>N/A</u>                         |  |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>HAND Auger</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |            |  | 8. HOLE LOCATION                                                           |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |            |  | 9. SURFACE ELEVATION                                                       |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |            |  | 10. DATE STARTED<br><u>2/21/00</u>                                         |  | 11. DATE COMPLETED<br><u>2/21/00</u>             |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |  | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                                  |  |
| 12. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                  |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                  |  |
| 15. GEOTECHNICAL SAMPLES<br><u>2</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | DISTURBED  |  | UNDISTURBED                                                                |  | 18. TOTAL NUMBER OF CORE BOXES                   |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | VOC        |  | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAD</u>                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |            |  |                                                                            |  | 21. TOTAL CORE RECOVERY                          |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | BACKFILLED |  | MONITORING WELL                                                            |  | 22. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |  | SCALE:                                                                     |  |                                                  |  |
| <div style="text-align: right; margin-bottom: 20px;">↑ N</div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p><u>SD</u><br/><u>4655</u></p> </div> <div style="text-align: center;"> <p><u>SD</u><br/><u>4656</u></p> </div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 20px;"> <p><u>Fence</u></p> <p><u>Line</u></p> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 20px;"> <p><u>M. A. Lickrodt</u></p> <p><u>Proprietor</u></p> </div> |  |            |  |                                                                            |  |                                                  |  |
| PROJECT <u>FLSRAP/SDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |            |  |                                                                            |  | HOLE NO. <u>SD 4356</u>                          |  |

| HTRW DRILLING LOG     |            |                                              |                                           |                                   |                       | WELL NAME<br>SLD 4356                                |
|-----------------------|------------|----------------------------------------------|-------------------------------------------|-----------------------------------|-----------------------|------------------------------------------------------|
| PROJECT<br>FUSRAP/SLD |            |                                              | INSPECTOR<br>Chris Leck                   |                                   | WELL #<br>2           |                                                      |
| BLK. NO.              | DEPTH (ft) | DESCRIPTION OF MATERIALS                     | FIELD SCREENING RESULTS                   | DETERMINED SAMPLE OR CORE BOX NO. | ANALYTICAL SAMPLE NO. | REMARKS                                              |
| GW                    | 1          | COVER<br>GRAVEL,<br>BLACK, 1/4" Loose<br>wet | GM03<br>Counts<br>NAT<br>00<br>PPM<br>PII |                                   |                       | N/A HAND<br>ANAL                                     |
|                       | 2          |                                              |                                           |                                   | SLD<br>4356<br>1015   |                                                      |
|                       | 3          |                                              |                                           |                                   |                       |                                                      |
|                       | 4          |                                              |                                           |                                   |                       |                                                      |
|                       |            | T.D. 2, 1 ft                                 |                                           | 1020 hrs                          |                       | 2/21/00<br>Duri. 5<br>5871 counts NAT<br>Background. |

PROJECT FUSRAP/SLD

WELL NAME SLD 4356

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |            |  | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER<br><u>SLD 4357</u>                   |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|----------------------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                           |  |            |  | 2. DRILL SUBCONTRACTOR<br><u>N/A</u>                                       |  | SHEET <u>1</u> OF <u>2</u>                       |  |
| 3. PROJECT<br><u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                   |  |            |  | 4. LOCATION<br><u>McKinley Iron</u>                                        |  |                                                  |  |
| 5. NAME OF DRILLER<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                                   |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>N/A</u>                       |  |                                                  |  |
| 7. SIZE AND TYPE OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hand Auger</u>                                                                                                                                                                                                                                                                                                                                                                           |  |            |  | 8. HOLE LOCATION                                                           |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |  | 9. SURFACE ELEVATION                                                       |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |  | 10. DATE STARTED<br><u>2/11/00</u>                                         |  | 11. DATE COMPLETED<br><u>2/21/00</u>             |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                           |  |            |  | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                  |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                  |  |
| 16. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                               |  | DISTURBED  |  | UNDISTURBED                                                                |  | 18. TOTAL NUMBER OF CORE BOXES                   |  |
| 19. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                  |  | VOC        |  | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAO</u>                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |  |                                                                            |  | 21. TOTAL CORE RECOVERY                          |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                            |  | BACKFILLED |  | MONITORING WELL                                                            |  | 23. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                           |  |            |  | SCALE:                                                                     |  |                                                  |  |
| <div style="text-align: right; margin-bottom: 20px;">↑ N</div> <div style="display: flex; justify-content: space-around; margin-top: 100px;"> <div style="text-align: center;">SLD<br/>4357</div> <div style="text-align: center;">SLD<br/>4358</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 100px;"> <div style="text-align: center;">Mallicket</div> <div style="text-align: center;">Propert</div> </div> |  |            |  |                                                                            |  |                                                  |  |
| PROJECT <u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                         |  |            |  |                                                                            |  | HOLE NO. <u>SLD 4357</u>                         |  |

| HTRW DRILLING LOG      |               |                                       |                                            |                                           |                                 | WELL NUMBER<br>SID 4357 |
|------------------------|---------------|---------------------------------------|--------------------------------------------|-------------------------------------------|---------------------------------|-------------------------|
| PROJECT<br>EUSRAP/SIDS |               | INSPECTOR<br>Chris Loch               |                                            | SHEET<br>2 OF 8                           |                                 |                         |
| STATION<br>NO.         | DEPTH<br>FEET | DESCRIPTION OF MATERIALS<br>NO.       | FIELD SCREENING<br>RESULTS<br>NO.          | CONTROL SAMPLE<br>OR CORE GRAB NO.<br>NO. | ANALYTICAL<br>SAMPLE NO.<br>NO. | REMARKS<br>NO.          |
| GP                     | 1             | COVER<br>GRAVEL, STIFF, LOOSE,<br>WET | 5209<br>COUNTS<br>NAT<br>O.D<br>PPM<br>PID | -                                         | -                               | N/A HAND ASSESS         |
|                        | 2             |                                       |                                            |                                           | SID<br>4357<br>10236            | -                       |
|                        | 3             | TID.                                  | 2.1 ft                                     | 1030                                      | ACS                             | 2/21/00<br>Drum: 5      |
|                        | 4             |                                       |                                            |                                           |                                 |                         |

EUSRAP/SIDS

SID 4357



| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                             |  |            |                                                                            | DISTRICT <u>St. Louis</u>                            |                                      | HOLE NUMBER<br><u>SLD 4358</u>                   |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|----------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                      |  |            | 2. DRILL SUBCONTRACTOR<br><u>N/A</u>                                       |                                                      |                                      | SHEET <u>1</u> OF <u>2</u>                       |  |
| 3. PROJECT<br><u>FUSRAP/SLD</u>                                                                                                                                                                                                                                                                                                                                                               |  |            |                                                                            | 4. LOCATION<br><u>MCKINLEY IRON</u>                  |                                      |                                                  |  |
| 5. NAME OF DRILLER<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                              |  |            |                                                                            | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>N/A</u> |                                      |                                                  |  |
| 7. SIZE AND TYPE OF DRILLING AND SAMPLING EQUIPMENT<br><u>HAND ASHL</u>                                                                                                                                                                                                                                                                                                                       |  |            | 8. HOLE LOCATION                                                           |                                                      |                                      |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                               |  |            | 9. SURFACE ELEVATION                                                       |                                                      |                                      |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                               |  |            | 10. DATE STARTED<br><u>2/21/00</u>                                         |                                                      | 11. DATE COMPLETED<br><u>2/21/00</u> |                                                  |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                      |  |            | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |                                                      |                                      |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                   |  |            | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |                                                      |                                      |                                                  |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                       |  |            | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |                                                      |                                      |                                                  |  |
| 15. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                      |  | DISTURBED  |                                                                            | UNDISTURBED                                          |                                      | 18. TOTAL NUMBER OF CORE BOXES                   |  |
| 19. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                             |  | VOC        |                                                                            | METALS                                               |                                      | OTHER (SPECIFY)<br><u>RAD</u>                    |  |
| 20. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                       |  | BACKFILLED |                                                                            | MONITORING WELL                                      |                                      | 21. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                      |  |            |                                                                            | SCALE:                                               |                                      |                                                  |  |
| <div style="text-align: right; margin-bottom: 20px;">↑ N</div> <div style="display: flex; justify-content: space-around; margin-top: 100px;"> <span>SLD 4357</span> <span>SLD 4358</span> <span>SLD 4359</span> </div> <div style="display: flex; justify-content: space-around; margin-top: 100px;"> <span>FUSR</span> <span>RMP</span> <span>MARCKWY</span> <span>ST PROPERTY</span> </div> |  |            |                                                                            |                                                      |                                      |                                                  |  |
| PROJECT <u>SLD5/FUSRAP</u>                                                                                                                                                                                                                                                                                                                                                                    |  |            |                                                                            |                                                      |                                      | HOLE NO. <u>SLD 4358</u>                         |  |

# HTRW DRILLING LOG

PROJECT *FUSRAP/SIDS*

INSPECTOR *Chris Liche*

WELL NUMBER *SLD 4358*

WELL *2* BOTTLE *2*

| GLCH<br>NO             | DEPTH<br>FT | DESCRIPTION OF MATERIALS<br>NO.                                                 | FIELD (COUNTING)<br>RESULTS<br>NO.                                                   | DEPT/DP SAMPLE<br>ON CORR COR NO. | ANALYTICAL<br>SAMPLE NO.                   | REMARKS<br>NO.                                                                   |
|------------------------|-------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------|--------------------------------------------|----------------------------------------------------------------------------------|
| <i>SP</i><br><i>GP</i> | <i>1</i>    | <i>COVER</i><br><i>SAND, GRAVEL (SP) (GP)</i><br><i>Black, st/f, loose, Dry</i> | <i>6118</i><br><i>COUNTS</i><br><i>NET</i><br><i>D.O</i><br><i>PPM</i><br><i>PID</i> | -                                 | <i>200</i><br><i>4358</i><br><i>103/hr</i> | <i>N/A Hard Angr</i>                                                             |
|                        | <i>2</i>    |                                                                                 |                                                                                      |                                   |                                            |                                                                                  |
|                        | <i>3</i>    | <i>TID. 2.1 f</i>                                                               |                                                                                      | <i>1040</i>                       | <i>hrs</i>                                 | <i>2/21/00</i><br><i>Drum: 5</i><br><i>5129 counts NET</i><br><i>Background.</i> |
|                        | <i>4</i>    |                                                                                 |                                                                                      |                                   |                                            |                                                                                  |

PROJECT *FUSRAP/SIDS*

WELL NUMBER *SLD 4358*

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |  | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER<br><u>570 5704</u>                  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|----------------------------------------------------------------------------|--|-------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |  | 2. DRILL SUBCONTRACTOR<br><u>Geotechnology</u>                             |  | SHEET <u>1</u> OF <u>2</u>                      |  |
| 3. PROJECT<br><u>FUSPAO/SLPS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |            |  | 4. LOCATION<br><u>2 Ph. 2, ps Samsco</u>                                   |  |                                                 |  |
| 5. NAME OF DRILLER<br><u>JIM McDONNELL</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CHE 55</u>                    |  |                                                 |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow 5in Auger</u><br><u>SPDR 3000</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |            |  | 8. HOLE LOCATION<br><u>CLASS 2</u>                                         |  |                                                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |  | 9. SURFACE ELEVATION                                                       |  |                                                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |  | 10. DATE STARTED<br><u>10/18/00</u>                                        |  | 11. DATE COMPLETED<br><u>10/18/00</u>           |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |  | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                                 |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |            |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                 |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                 |  |
| 16. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | DISTURBED  |  | UNDISTURBED                                                                |  | 18. TOTAL NUMBER OF CORE BOXES                  |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | VOC        |  | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAD</u>                   |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | BACKFILLED |  | MONITORING WELL                                                            |  | 21. SIGNATURE OF INSPECTOR<br><u>Chris Zerk</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |  | SCALE                                                                      |  |                                                 |  |
| <div style="text-align: center; margin-bottom: 20px;"><u>McKinley</u>    <u>Br-Dg</u></div> <div style="position: relative; width: 100%;"> <div style="position: absolute; right: 0; top: 0;">↑ N</div> <div style="position: absolute; left: 0; bottom: 0; width: 100%; height: 100%; border: 1px dashed black;"></div> <div style="position: absolute; left: 10%; top: 40%;"><u>HARR SL</u></div> <div style="position: absolute; left: 30%; top: 60%;"> <u>SLD</u><br/> <u>5704</u> </div> <div style="position: absolute; right: 10%; bottom: 10%; border: 1px solid black; padding: 5px; transform: rotate(-15deg);"> <u>Br-Dg</u> </div> </div> |  |            |  |                                                                            |  |                                                 |  |
| PROJECT <u>FUSPAO/SLPS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            |  |                                                                            |  | HOLE NO.<br><u>570 5704</u>                     |  |

FORM 5056-R, AUG 94

(Proponent: CEDW-EG)

# HTRW DRILLING LOG

| PROJECT     |  | INSPECTOR                                                      |                                    | HOLE NUMBER           |  |
|-------------|--|----------------------------------------------------------------|------------------------------------|-----------------------|--|
| FUSRAP/SUDS |  | Mrs. Locke                                                     |                                    | 540 5704              |  |
| DEPTH       |  | DESCRIPTION OF MATERIALS                                       |                                    | ANALYTICAL SAMPLE NO. |  |
| 1           |  | CONCRETE                                                       | 4800<br>COUNTS<br>NAT<br>ON<br>PID | 540<br>5704 (204)     |  |
| 2           |  | GRAVEL, SAND, LOW<br>CLAY,<br>Brown, HARD, LOOSE,<br>Dry, FR.  | 6100<br>COUNTS<br>NAT<br>ON<br>PID | 540<br>5704<br>1052   |  |
| 3           |  | LOW CLAY with GRAVEL<br>Brown, Brown, HARD,<br>Dense, Dry, FR. | 5400<br>COUNTS<br>NAT<br>ON<br>PID | 540<br>5740<br>1056   |  |
| 3           |  | -TID.                                                          | 2.6                                | 6+ 1100 hrs 10/18/00  |  |

Drum: 1  
(ph. d. ps)  
5400 counts  
NAT BACKGROUND  
Bentonite Cap  
for BF

5400

PROJECT FUSRAP/SUDS

540 5704



| HTRW DRILLING LOG                                                                                         |  |                                                           |                                                | DISTRICT <u>St. Louis</u>                               |  | HOLE NUMBER<br><u>5705</u>                                                |  |
|-----------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------|------------------------------------------------|---------------------------------------------------------|--|---------------------------------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                  |  |                                                           | 2. DRILL SUBCONTRACTOR<br><u>Geotechnology</u> |                                                         |  | SHEET <u>1</u> OF <u>2</u>                                                |  |
| 3. PROJECT<br><u>Fugro/SWS</u>                                                                            |  |                                                           |                                                | 4. LOCATION<br><u>Phelps Services</u>                   |  |                                                                           |  |
| 5. NAME OF DRILLER<br><u>Jim McDonald</u>                                                                 |  |                                                           |                                                | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CNE 55</u> |  |                                                                           |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Stem Auger</u><br><u>Solid 7/8" ID</u> |  | 8. HOLE LOCATION<br><u>CLASS 2</u>                        |                                                | 9. SURFACE ELEVATION                                    |  | 10. DATE STARTED<br><u>10/24/00</u>                                       |  |
| 11. DATE COMPLETED<br><u>10/24/00</u>                                                                     |  | 12. OVERBURDEN THICKNESS                                  |                                                | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>NA</u>          |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>NA</u> |  |
| 15. TOTAL DEPTH OF HOLE                                                                                   |  | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>NA</u> |                                                | 17. TOTAL NUMBER OF CORE BOXES                          |  | 18. TOTAL CORE RECOVERY                                                   |  |
| 19. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                      |  | 20. DISTURBED                                             |                                                | 21. UNDISTURBED                                         |  | 22. TOTAL NUMBER OF CORE BOXES                                            |  |
| 23. SAMPLES FOR CHEMICAL ANALYSIS                                                                         |  | VOC                                                       |                                                | METALS                                                  |  | OTHER (SPECIFY)<br><u>RAD</u>                                             |  |
| 24. DISPOSITION OF HOLE                                                                                   |  | BAGGED                                                    |                                                | MONITORING WELL                                         |  | 25. SIGNATURE OF INSPECTOR<br><u>[Signature]</u>                          |  |
| LOCATION SKETCH/COMMENTS                                                                                  |  |                                                           |                                                | SCALE:                                                  |  |                                                                           |  |
|                                                                                                           |  |                                                           |                                                |                                                         |  |                                                                           |  |
| PROJECT<br><u>Fugro/SWS</u>                                                                               |  |                                                           |                                                | HOLE NO.<br><u>SLD 5705</u>                             |  |                                                                           |  |

# HTRW DRILLING LOG

PROJECT *FUSRAP/SWS*

INSPECTOR *Chris Locke*

HOLE NUMBER *SWP 5705*

SHEET *2* OF *2*

| DEPTH<br>FEET | DESCRIPTION OF MATERIALS<br>FACIES      | FIELD SCREENING<br>RESULTS<br>%T    | GRAVITY SAMPLE<br>OR CORE BOX NO.        | ANALYTICAL<br>SAMPLE NO.<br>%T | REMARKS                                                                       |
|---------------|-----------------------------------------|-------------------------------------|------------------------------------------|--------------------------------|-------------------------------------------------------------------------------|
|               | CONCRETE                                | 6700<br>COUNTS<br>NIT               |                                          | 5400<br>5705 (CONC)            |                                                                               |
|               | GRAVEL,<br>TAM HARD. LOOSE, DRY<br>FILL | 6700<br>COUNTS<br>NIT<br>PPM<br>PFO | 0.5<br>TON/6 <sup>1</sup> / <sub>2</sub> | 5400<br>5705<br>0986           | 1.5<br>2.0 RECOVERY                                                           |
|               |                                         | 7100<br>COUNTS<br>NIT<br>PFO        |                                          | 5400<br>5747<br>0985H          |                                                                               |
|               | T.D                                     | 2.3 ft                              | 0945                                     | his 10/24/00                   | Drum: 1<br>(ph.rips)<br>6400 counts<br>NIT BACKGROUND<br>Bentom Chp<br>for BF |

6400

model

*FUSRAP/SWS*

cell no

*SWP 5705*



# HTRW DRILLING LOG

| PROJECT    |          | INSPECTOR                                            |                             | WELL NUMBER                       |                                                                                                                                                                                                                |
|------------|----------|------------------------------------------------------|-----------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FUSRAP/SUP |          | Chris Lock                                           |                             | SND 5706                          |                                                                                                                                                                                                                |
| ELEV. 100  | DEPTH 00 | DESCRIPTION OF MATERIALS                             | FIELD SCREENING RESULTS     | TESTED SAMPLE OF CORE AND NO. 100 | ANALYTICAL SAMPLE NO. (1)                                                                                                                                                                                      |
|            |          | control                                              | 700 counts NIST             |                                   | 5400 5706 (cover) 0835                                                                                                                                                                                         |
| CL         | 1        | S. Rh- low clay<br>Brown - hard, loose,<br>dry, fri. | 8100 counts NIST<br>PPM PSD |                                   | 5400 5706 0841                                                                                                                                                                                                 |
|            | 2        | T.D. 1.5 ft                                          |                             | 0850                              | his 10/24/00                                                                                                                                                                                                   |
|            | 3        |                                                      |                             |                                   |                                                                                                                                                                                                                |
|            |          |                                                      |                             |                                   | Drum: 1 (ph. lps)<br>7600 counts<br>NIST Background<br>Bentonite chips<br>for BF<br>T.D. Due to<br>Refusal with<br>Oik from USACE<br>(was the third<br>attempt to<br>complete the<br>Boring).<br>by Robin Pano |

8000  
7600

FUSRAP/SUP

SND 5706



| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |                                                | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER<br><u>SLD 5707</u>                   |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|------------------------------------------------|----------------------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>I Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |            | 2. DRILL SUBCONTRACTOR<br><u>Geotechnology</u> |                                                                            |  | SHEET <u>1</u> OF <u>2</u>                       |  |
| PROJECT<br><u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |            |                                                | 4. LOCATION<br><u>Ph. Lips Services</u>                                    |  |                                                  |  |
| 3. NAME OF DRILLER<br><u>JIM McDONALD</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |                                                | 5. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CHE 55</u>                    |  |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Stem Auger</u><br><u>SPL 1 3200N</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |            |                                                | 6. HOLE LOCATION<br><u>CLASS 2</u>                                         |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |                                                | 8. SURFACE ELEVATION                                                       |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |                                                | 10. DATE STARTED<br><u>10/23/00</u>                                        |  | 11. DATE COMPLETED<br><u>10/23/00</u>            |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |                                                | 16. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |                                                | 18. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                  |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |            |                                                | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                  |  |
| 19. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | DISTURBED  |                                                | UNDISTURBED                                                                |  | 18. TOTAL NUMBER OF CORE BOXES                   |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | VOC        |                                                | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAp</u>                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |                                                |                                                                            |  | 21. TOTAL CORE RECOVERY                          |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | BACKFILLED |                                                | MONITORING WELL                                                            |  | 21. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |                                                |                                                                            |  |                                                  |  |
| SCALE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |            |                                                |                                                                            |  |                                                  |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; right: 10%; text-align: center;">↑ N</div> <div style="position: absolute; top: 50%; left: 10%; text-align: center;">Hall SE</div> <div style="position: absolute; top: 50%; left: 10%;">↑</div> <div style="position: absolute; top: 50%; left: 10%;">W</div> <div style="position: absolute; top: 50%; right: 10%; text-align: center;">Ph. Lips Services Building</div> <div style="position: absolute; top: 70%; right: 10%; text-align: center;">LOADING DOCK</div> <div style="position: absolute; top: 70%; left: 40%; text-align: center;">SLD 5707</div> </div> |  |            |                                                |                                                                            |  |                                                  |  |
| PROJECT <u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |            |                                                |                                                                            |  | HOLE NO.<br><u>SLD 5707</u>                      |  |

FORM 5056-R, AUG 94

(Prepared CECW-EG)

# HTRW DRILLING LOG

| PROJECT    |  | INSPECTOR                                                     |                                            | WELL NUMBER                                                                      |  |
|------------|--|---------------------------------------------------------------|--------------------------------------------|----------------------------------------------------------------------------------|--|
| FUSRAP/SWS |  | Chris Locke                                                   |                                            | SWS 5707                                                                         |  |
| DEPTH      |  | DESCRIPTION OF MATERIALS                                      |                                            | ANALYTICAL SAMPLE NO.                                                            |  |
| 1          |  | CONCRETE                                                      | 6100<br>COUNTS<br>NAT                      | 3400<br>5707 (C14)<br>1339 Hrs                                                   |  |
| 2          |  | SAND, GRAVEL, SLAY<br>BRACK, HARD LOOSE<br>Dry, Fine, Angular | 6200<br>COUNTS<br>NAT<br>0.1<br>PPH<br>PSP | 5400<br>5707<br>1345                                                             |  |
| 3          |  | T.D.                                                          | 6500<br>COUNTS<br>NAT<br>0.1<br>PPH        | 5400<br>5749<br>1348                                                             |  |
|            |  |                                                               | 2.4 ft                                     | 1355 hrs                                                                         |  |
|            |  |                                                               |                                            | 10/23/00                                                                         |  |
|            |  |                                                               |                                            | Drum: 1<br>(ph eps)<br>5800 counts<br>NAT Background<br>Bentonite chip<br>for BF |  |

FUSRAP/SWS

SWS 5707

| HTRW DRILLING LOG                                                                                         |  |               |  | DISTRICT <u>St. Louis</u>                                  |  | HOLE NUMBER<br><u>SP 5708</u>     |  |
|-----------------------------------------------------------------------------------------------------------|--|---------------|--|------------------------------------------------------------|--|-----------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                  |  |               |  | 2. DRILL SUBCONTRACTOR<br><u>Geotechnical</u>              |  | SHEET <u>1</u> OF <u>2</u>        |  |
| 3. PROJECT<br><u>FUSRAP/SPS</u>                                                                           |  |               |  | 4. LOCATION<br><u>PH. Lips Service</u>                     |  |                                   |  |
| 5. NAME OF DRILLER<br><u>J. McDonald</u>                                                                  |  |               |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 33</u>    |  |                                   |  |
| 7. SIZE AND TYPE OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Stem Auger</u><br><u>3" dia. 5' dia.</u> |  |               |  | 8. HOLE LOCATION                                           |  |                                   |  |
| 9. SURFACE ELEVATION                                                                                      |  |               |  | 10. DATE STARTED<br><u>10/23/00</u>                        |  |                                   |  |
| 11. DATE COMPLETED<br><u>10/23/00</u>                                                                     |  |               |  | 12. OVERBURDEN THICKNESS                                   |  |                                   |  |
| 13. DEPTH DRILLED INTO ROCK                                                                               |  |               |  | 14. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>            |  |                                   |  |
| 15. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u>                                |  |               |  | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u> |  |                                   |  |
| 17. TOTAL DEPTH OF HOLE                                                                                   |  |               |  | 18. TOTAL NUMBER OF CORE SECTIONS                          |  |                                   |  |
| 19. GEOTECHNICAL SAMPLER<br><u>0</u>                                                                      |  | 20. DISTURBED |  | 21. UNDISTURBED                                            |  | 22. TOTAL NUMBER OF CORE SECTIONS |  |
| 23. SAMPLES FOR CHEMICAL ANALYSIS                                                                         |  | VOC           |  | METALS                                                     |  | OTHER (SPECIFY)<br><u>TRAD</u>    |  |
| 24. DISPOSITION OF HOLE                                                                                   |  | BACKFILLED    |  | MONITORING WELL                                            |  | OTHER (SPECIFY)                   |  |
| 25. SIGNATURE OF INSPECTOR<br><u>[Signature]</u>                                                          |  |               |  | 26. SIGNATURE OF INSPECTOR<br><u>[Signature]</u>           |  |                                   |  |
| LOCATION SKETCH/COMMENTS                                                                                  |  |               |  |                                                            |  |                                   |  |
| SCALE:                                                                                                    |  |               |  |                                                            |  |                                   |  |
|                                                                                                           |  |               |  |                                                            |  |                                   |  |
| PROJECT <u>FUSRAP/SPS</u>                                                                                 |  |               |  | HOLE NO. <u>SP 5708</u>                                    |  |                                   |  |

# HTRW DRILLING LOG

| PROJECT    |            | INSPECTOR                                                   |                                            | WELL NUMBER                   |                                                                                                |
|------------|------------|-------------------------------------------------------------|--------------------------------------------|-------------------------------|------------------------------------------------------------------------------------------------|
| FUSRAP/SLS |            | Chris Lock                                                  |                                            | 510 5708                      |                                                                                                |
| BLK NO     | DEPTH (ft) | DESCRIPTION OF MATERIALS                                    | FIELD SCREENING ACTIVITY                   | GLITCH SAMPLE OR CORE LOG NO. | ANALYTICAL SAMPLE NO.                                                                          |
| SW         | 1          | Slag, cinders, gravel<br>Hard, Loose, Dry,<br>Fill, Angular | 6800<br>COUNTS<br>NAT<br>0.0<br>PPM<br>PbO | 0.5<br>ton/ft <sup>2</sup>    | 2470<br>5706<br>1308                                                                           |
|            | 2          |                                                             | 7100<br>COUNTS<br>NAT<br>0.0<br>PPM<br>PbO |                               | 5400<br>5750<br>1312                                                                           |
|            | 3          | T.D.                                                        | 2.0                                        | 6x                            | 1320                                                                                           |
|            |            |                                                             |                                            |                               | hrs 10/23/00<br>Dmi:<br>(ph. Insp)<br>600 counts<br>NAT BACKGROUND<br>Bentonite chip<br>for BF |

FUSRAP/SLS

510 5708

6100



| HTRW DRILLING LOG                                                                                      |  |            |                                                                           | DISTRICT <u>SL. 6042</u> |                                       | HOLE NUMBER<br><u>SLD 5709</u>                  |  |
|--------------------------------------------------------------------------------------------------------|--|------------|---------------------------------------------------------------------------|--------------------------|---------------------------------------|-------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                               |  |            | 2. DRILL SUBCONTRACTOR<br><u>Geotechnology</u>                            |                          |                                       | SHEET <u>1</u> OF <u>2</u>                      |  |
| 3. PROJECT<br><u>FUSRAP/SLD</u>                                                                        |  |            | 4. LOCATION<br><u>PH. LPS Sarnu</u>                                       |                          |                                       |                                                 |  |
| 5. NAME OF DRILLER<br><u>JIM McDONNARD</u>                                                             |  |            | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                   |                          |                                       |                                                 |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Stem Auger</u><br><u>SPR-4 3000</u> |  |            | 8. HOLE LOCATION<br><u>CLASS 2</u>                                        |                          |                                       |                                                 |  |
|                                                                                                        |  |            | 9. SURFACE ELEVATION                                                      |                          |                                       |                                                 |  |
|                                                                                                        |  |            | 10. DATE STARTED<br><u>10/18/00</u>                                       |                          | 11. DATE COMPLETED<br><u>10/18/00</u> |                                                 |  |
| 12. OVERBURDEN THICKNESS                                                                               |  |            | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>NA</u>                            |                          |                                       |                                                 |  |
| 13. DEPTH DRILLED INTO ROCK                                                                            |  |            | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>NA</u> |                          |                                       |                                                 |  |
| 14. TOTAL DEPTH OF HOLE                                                                                |  |            | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>NA</u>                 |                          |                                       |                                                 |  |
| 16. GEOTECHNICAL SAMPLES<br><u>D</u>                                                                   |  | DISTURBED  |                                                                           | UNDISTURBED              |                                       | 18. TOTAL NUMBER OF CORE BOXES                  |  |
| 19. SAMPLES FOR CHEMICAL ANALYSIS                                                                      |  | VOC        |                                                                           | METALS                   |                                       | OTHER (SPECIFY)<br><u>RHO</u>                   |  |
| 20. DISPOSITION OF HOLE                                                                                |  | BAG FILLED |                                                                           | MONITORING WELL          |                                       | 21. SIGNATURE OF INSPECTOR<br><u>John Fuchs</u> |  |
| LOCATION SKETCH/COMMENTS                                                                               |  |            |                                                                           |                          |                                       | SCALE:                                          |  |
|                                                                                                        |  |            |                                                                           |                          |                                       |                                                 |  |
| PROJECT<br><u>FUSRAP/SLD</u>                                                                           |  |            |                                                                           |                          |                                       | HOLE NO.<br><u>SLD 5709</u>                     |  |

# HTRW DRILLING LOG

| PROJECT     |   | INSPECTOR                                         |                               | HOLE NUMBER           |                            |
|-------------|---|---------------------------------------------------|-------------------------------|-----------------------|----------------------------|
| FUSRAP/ SWX |   | Chris Cook                                        |                               | SWD 5709              |                            |
| DEPTH       |   | DESCRIPTION OF MATERIALS                          |                               | ANALYTICAL SAMPLE NO. |                            |
| FEET        |   | FEET                                              |                               | FEET                  |                            |
|             |   | CONCRETE                                          | 5600 counts NCI               | 5400 5709 CONCRETE    | 1311 HRS                   |
| 1           | 1 | GRAVEL, SAND, BROWN, BLACK, HARD, LOOSE, DRY, FOR | 5800 counts NCI<br>PPM<br>PPO | 5400 5709 1312 HRS    | 1.8 / 2.0 Recovery         |
| 2           | 2 |                                                   | 5800 counts NCI<br>PPM<br>PPO |                       |                            |
| 3           | 3 |                                                   |                               | 5400 5709 1315 HRS    |                            |
|             |   | TID                                               | 2.5 ft                        | 1320 HRS              | 10/18/00                   |
|             |   |                                                   |                               |                       | Drum: 1<br>(ph. 0.0)       |
|             |   |                                                   |                               |                       | 5300 counts NCI Background |
|             |   |                                                   |                               |                       | Bentonite chips for BF     |

FUSRAP/ SWX

SWD 5709

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |                                       | DISTRICT <u>SL. LOUIS</u>                                                  |  | HOLE NUMBER<br><u>340 5710</u>        |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|---------------------------------------|----------------------------------------------------------------------------|--|---------------------------------------|--|
| 1. COMPANY NAME <u>IT CORPORATION</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            | 2. DRILL SUBCONTRACTOR <u>Geology</u> |                                                                            |  | SHEET <u>1</u> OF <u>2</u>            |  |
| 3. PROJECT <u>FUSRAP/SWS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |            |                                       | 4. LOCATION <u>Ph. Lps Searcy</u>                                          |  |                                       |  |
| 5. NAME OF DRILLER <u>JIM McDONALD</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |            |                                       | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                    |  |                                       |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Stem Auger</u><br><u>Split Spoon</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |            |                                       | 8. HOLE LOCATION<br><u>Cross 2</u>                                         |  |                                       |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |            |                                       | 9. SURFACE ELEVATION                                                       |  |                                       |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |            |                                       | 10. DATE STARTED<br><u>10/18/00</u>                                        |  | 11. DATE COMPLETED<br><u>10/18/00</u> |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |                                       | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                       |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |                                       | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                       |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |            |                                       | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                       |  |
| 16. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | DISTURBED  |                                       | UNDISTURBED                                                                |  | 18. TOTAL NUMBER OF CORE BOXES        |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | VOC        |                                       | METALS                                                                     |  | OTHER (SPECIFY)<br><u>PAH</u>         |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | BACKFILLED |                                       | MONITORING WELL                                                            |  | 21. TOTAL CORE RECOVERY               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |            |                                       | 23. SIGNATURE OF INSPECTOR<br><u>[Signature]</u>                           |  |                                       |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |                                       |                                                                            |  |                                       |  |
| SCALE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |            |                                       |                                                                            |  |                                       |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; left: 20%;"><u>McKinley</u></div> <div style="position: absolute; top: 10%; left: 45%;"><u>Bridge</u></div> <div style="position: absolute; top: 15%; left: 80%;">N</div> <div style="position: absolute; top: 25%; left: 20%;">340</div> <div style="position: absolute; top: 30%; left: 20%;">5704</div> <div style="position: absolute; top: 55%; left: 5%;">HARD</div> <div style="position: absolute; top: 58%; left: 5%;">SL</div> <div style="position: absolute; top: 65%; left: 5%;">↑</div> <div style="position: absolute; top: 65%; left: 5%;">↓</div> <div style="position: absolute; top: 68%; left: 50%;">340 5710</div> <div style="position: absolute; top: 80%; left: 45%;">BRIDGE</div> </div> |  |            |                                       |                                                                            |  |                                       |  |
| PROJECT <u>FUSRAP/SWS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |            |                                       |                                                                            |  | HOLE NO.<br><u>340 5710</u>           |  |

FORM 5056-R. AUG 94

(Proponent: CECW-EG)

# HTRW DRILLING LOG

| PROJECT   |       | INSPECTOR                                              |                                                                      | WELL NUMBER                  |                              |
|-----------|-------|--------------------------------------------------------|----------------------------------------------------------------------|------------------------------|------------------------------|
| FUSAP/SMA |       | Chris Locke                                            |                                                                      | SLD 5710                     |                              |
| SLT       | DEPTH | DESCRIPTION OF MATERIALS                               | FIELD SCORING DATA                                                   | SECTION SAMPLE OF CORE OR AL | ANALYTICAL SAMPLE NO.        |
|           |       | concrete (cover)                                       | 5900 counts<br>NAI                                                   |                              | 5400<br>5710 (cover)<br>0928 |
| GW        | 1     | GRAVEL, SAND<br>TAN, HARD, DENSE<br>DIG, FINE, Angular | 5600 counts<br>NAI<br>PPM<br>PTA<br>5700 counts<br>NAI<br>PPM<br>PTA |                              | 2400<br>5710<br>0936         |
|           | 2     | FAC CHAN, Brown<br>HARD, DENSE, DIG                    |                                                                      | 2.5<br>to 1/1'               | 5400<br>5752<br>0940         |
| CH        | 3     | TID 2.6 ft                                             |                                                                      | 0950                         | 115                          |

118  
2.0 Recovery

10/18/00  
Drum: 1  
(philips)  
5800 counts  
NAI BACKGROUND  
Bentone chip  
for B.F.

(5800)

FUSAP/SMA

SLD 5710



| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                     |  |            |                                            | DISTRICT <u>St. Louis</u>                                               |  | HOLE NUMBER <u>SLD 5711</u>                   |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--------------------------------------------|-------------------------------------------------------------------------|--|-----------------------------------------------|--|
| 1. COMPANY NAME <u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                 |  |            | 2. DRILL SUBCONTRACTOR <u>Geotechnical</u> |                                                                         |  | SHEET <u>1</u> OF <u>2</u>                    |  |
| 3. PROJECT <u>FUSRAP/ SWS</u>                                                                                                                                                                                                                                                                                                                                                         |  |            |                                            | 4. LOCATION <u>PH 445 SORNA</u>                                         |  |                                               |  |
| 5. NAME OF DRILLER <u>JIM McDONALD</u>                                                                                                                                                                                                                                                                                                                                                |  |            |                                            | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>CNE</u>                       |  |                                               |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>Hollow Star Auger</u><br><u>Solid SCOR</u>                                                                                                                                                                                                                                                                                   |  |            | 8. HOLE LOCATION <u>CLASS 2</u>            |                                                                         |  |                                               |  |
| 9. SURFACE ELEVATION                                                                                                                                                                                                                                                                                                                                                                  |  |            |                                            | 10. DATE STARTED <u>10/31/94</u>                                        |  |                                               |  |
| 11. DATE COMPLETED <u>11/3/94</u>                                                                                                                                                                                                                                                                                                                                                     |  |            |                                            | 12. OVERBURDEN THICKNESS                                                |  |                                               |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                           |  |            |                                            | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u> |  |                                               |  |
| 15. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                               |  |            |                                            | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u>                 |  |                                               |  |
| 17. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                              |  | DISTURBED  |                                            | UNDISTURBED                                                             |  | 18. TOTAL NUMBER OF CORE BOXES                |  |
| 19. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                     |  | VOC        |                                            | METALS                                                                  |  | OTHER (SPECIFY) <u>RAO</u>                    |  |
| 20. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                               |  | BACKFILLED |                                            | MONITORING WELL                                                         |  | 21. TOTAL CORE RECOVERY                       |  |
|                                                                                                                                                                                                                                                                                                                                                                                       |  |            |                                            |                                                                         |  | 22. SIGNATURE OF INSPECTOR <u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                              |  |            |                                            |                                                                         |  |                                               |  |
| SCALE:                                                                                                                                                                                                                                                                                                                                                                                |  |            |                                            |                                                                         |  |                                               |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; left: 10%; font-size: 2em;">LOADING DOCK</div> <div style="position: absolute; top: 40%; left: 10%;">SLD 5711</div> <div style="position: absolute; top: 60%; left: 80%;">SLD 5713</div> <div style="position: absolute; top: 10%; right: 10%; font-size: 3em;">N</div> </div> |  |            |                                            |                                                                         |  |                                               |  |
| PROJECT <u>FUSRAP/ SWS</u>                                                                                                                                                                                                                                                                                                                                                            |  |            |                                            |                                                                         |  | HOLE NO. <u>SLD 5711</u>                      |  |

FORM 5056-R, AUG 94

(Proponent: CECW-EG)

# HTRW DRILLING LOG

| PROJECT    |       | INSPECTOR                                              |                                  | HOLE NUMBER                 |                                                                                    |
|------------|-------|--------------------------------------------------------|----------------------------------|-----------------------------|------------------------------------------------------------------------------------|
| FUSRAP/SMS |       | Chris Lock                                             |                                  | 340 5711                    |                                                                                    |
| SLT. NO.   | DEPTH | DESCRIPTION OF MATERIALS                               | FIELD SCREENING RESULTS          | SCREEN SAMPLE OR CORE DEPTH | ANALYTICAL SAMPLE NO.                                                              |
|            | 1     | Concrete, cover                                        | 5300 counts<br>NAT<br>ppm<br>PSP |                             | 240<br>5711 (cover)<br>09M                                                         |
|            | 2     | fat clay with silty<br>Green, HARD, dense<br>dry, fill | 5600 counts<br>NAT               | 1.5<br>down/ft              | 340<br>5711<br>0915                                                                |
|            | 3     |                                                        | PSP<br>6000 counts<br>NAT        |                             |                                                                                    |
|            | 4     |                                                        | ppm<br>PSP                       |                             | 340<br>5753<br>0927                                                                |
|            |       | TID                                                    | 4.0 ft                           | 0935 hrs                    | 10/31/00                                                                           |
|            |       |                                                        |                                  |                             | Drum: 2<br>(ph. 1.05)<br>5300 counts<br>NAT Background<br>Bentonite chip<br>for BT |

| HTRW DRILLING LOG                                                                                     |  |            |  | DISTRICT <u>SL. Lower</u>                                                  |  | HOLE NUMBER<br><u>SWD 5712</u>                   |  |
|-------------------------------------------------------------------------------------------------------|--|------------|--|----------------------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                              |  |            |  | 2. DRILL SUBCONTRACTOR<br><u>Geotechnology</u>                             |  | SHEET <u>1</u> OF <u>2</u>                       |  |
| 3. PROJECT<br><u>FUSPAD/SWS</u>                                                                       |  |            |  | 4. LOCATION<br><u>Ph. Lps Service</u>                                      |  |                                                  |  |
| 5. NAME OF DRILLER<br><u>JIM McDONALD</u>                                                             |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                    |  |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow 3/4" Auger</u><br><u>SPRT TWIN</u> |  |            |  | 8. HOLE LOCATION<br><u>TR class 2</u>                                      |  |                                                  |  |
|                                                                                                       |  |            |  | 9. SURFACE ELEVATION                                                       |  |                                                  |  |
|                                                                                                       |  |            |  | 10. DATE STARTED<br><u>10/18/00</u>                                        |  | 11. DATE COMPLETED<br><u>10/18/00</u>            |  |
| 12. OVERBURDEN THICKNESS                                                                              |  |            |  | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                           |  |            |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                  |  |
| 14. TOTAL DEPTH OF HOLE                                                                               |  |            |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                  |  |
| 16. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                  |  | DISTURBED  |  | UNDISTURBED                                                                |  | 18. TOTAL NUMBER OF CORE BOXES                   |  |
| 19. SAMPLES FOR CHEMICAL ANALYSIS                                                                     |  | VOC        |  | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAD</u>                    |  |
|                                                                                                       |  |            |  |                                                                            |  | 21. TOTAL CORE RECOVERY                          |  |
| 22. DISPOSITION OF HOLE                                                                               |  | BACKFILLED |  | MONITORING WELL                                                            |  | 23. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
|                                                                                                       |  |            |  |                                                                            |  |                                                  |  |
| LOCATION SKETCH/COMMENTS                                                                              |  |            |  |                                                                            |  |                                                  |  |
| SCALE:                                                                                                |  |            |  |                                                                            |  |                                                  |  |
|                                                                                                       |  |            |  |                                                                            |  |                                                  |  |
| PROJECT <u>FUSPAD/SWS</u>                                                                             |  |            |  |                                                                            |  | HOLE NO.<br><u>SWD 5712</u>                      |  |

FORM 5056-R, AUG 94

(Proponent: CECW-EG)

# HTRW DRILLING LOG

| PROJECT     |       | INSPECTOR                                                                 |                                            | HOLE NUMBER                      |                              |
|-------------|-------|---------------------------------------------------------------------------|--------------------------------------------|----------------------------------|------------------------------|
| FUSRAP/SIDS |       | Chris Locke                                                               |                                            | SND 5712                         |                              |
| DATE        | DEPTH | DESCRIPTION OF MATERIALS                                                  | FIELD SCREENING RESULTS                    | CERTIFIED SAMPLE OR CORE BOX NO. | ANALYTICAL SAMPLE NO.        |
|             |       | CONCRETE                                                                  | 5700<br>COUNTS<br>NET                      |                                  | 5700<br>5712 (WATER)<br>1414 |
| GW 1        |       | GRAVEL, SAND, HARD,<br>LOOSE, DRY, FRIABLE                                | 5300<br>COUNTS<br>NET<br>DIO<br>PDM<br>PSP | 0.5 -<br>ton/642                 | 5700<br>5712<br>1412         |
| CZ 2        |       | Silty - LEAN CLAY WITH<br>WOOD - STAG<br>BLACK, HARD DENSE<br>Moist, FRI. | 5800<br>COUNTS<br>NET<br>DIO<br>PDM<br>PSP |                                  | 5700<br>5712<br>1421         |
| 3           |       | LID                                                                       | 2.3 ft                                     | 1430                             | his                          |

1.5  
2.0 Recovery

10/18/00  
Draw: i  
(p.h.d.p.s)  
5500 counts NET  
Background  
Barbuck Chap  
for BF.

550

FUSRAP/SIDS

SND 5712



| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                |                                                                            | DISTRICT <u>SLD 5713</u>   |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------|----------------------------------------------------------------------------|----------------------------|--|
| 1. COMPANY NAME<br><u>IT CORPORATION</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | 2. DRILL SUBCONTRACTOR<br><u>Geotechnology</u> |                                                                            | SHEET <u>1</u> OF <u>2</u> |  |
| 3. PROJECT<br><u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                | 4. LOCATION<br><u>Ph. 1. ps Service</u>                                    |                            |  |
| 5. NAME OF DRILLER<br><u>JIM McDONALD</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                    |                            |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Stem Auger</u><br><u>Split Spoon</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | 8. HOLE LOCATION<br><u>CLASS 2</u>             |                                                                            |                            |  |
| 9. SURFACE ELEVATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                |                                                                            |                            |  |
| 10. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                | 11. DATE STARTED<br><u>10/30/20</u>                                        |                            |  |
| 12. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                | 13. DATE COMPLETED<br><u>10/30/20</u>                                      |                            |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                | 15. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |                            |  |
| 16. GASTECHEMICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                | 17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |                            |  |
| 18. DISTURBED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                | 19. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |                            |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                | 21. TOTAL NUMBER OF CORE BOXES                                             |                            |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | 23. SIGNATURE OF INSPECTOR                     |                                                                            | 24. TOTAL CORE RECOVERY    |  |
| 25. LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | 26. SCALE:                                     |                                                                            | 27. SIGNATURE OF INSPECTOR |  |
| <div style="position: relative;"> <div style="position: absolute; top: 10%; left: 10%; font-size: 2em;">LOADING</div> <div style="position: absolute; top: 10%; right: 10%; font-size: 2em;">Dock</div> <div style="position: absolute; top: 30%; left: 10%; font-size: 1.5em;">SLD 5711</div> <div style="position: absolute; top: 45%; left: 40%; font-size: 1.5em;">SLD 5713</div> <div style="position: absolute; top: 60%; left: 30%; font-size: 1.5em;">Ph. 1. ps</div> <div style="position: absolute; top: 60%; left: 50%; font-size: 1.5em;">Service</div> <div style="position: absolute; top: 60%; left: 70%; font-size: 1.5em;">Property</div> <div style="position: absolute; top: 75%; left: 5%; font-size: 1.5em; border: 1px solid black; padding: 2px;">Small Building</div> <div style="position: absolute; top: 85%; left: 10%; font-size: 1.5em;">PROJECT <u>FUSRAP/SLDS</u></div> <div style="position: absolute; top: 85%; right: 10%; font-size: 1.5em;">HOLE NO<br/><u>SLD 5713</u></div> </div> |  |                                                |                                                                            |                            |  |

# HTRW DRILLING LOG

PROJECT *FUSRAP/SWS*

INSPECTOR *Chris Loch*

WELL NUMBER *SD 5713*

DATE *2* MONTH *2*

| DEPTH<br>FEET | DEPTH<br>M | DESCRIPTION OF MATERIALS<br>LOG                 | FIELD COUNTING<br>RESULTS           | DEATHEN SAMPLE<br>ON CORE BOX NO. | ANALYTICAL<br>SAMPLE NO.     | REMARKS                                                                                             |
|---------------|------------|-------------------------------------------------|-------------------------------------|-----------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------|
|               |            | CONCRETE, COVER                                 | 5500<br>COUNTS<br>NET               |                                   | 5400<br>5713 (COVER)<br>1532 |                                                                                                     |
| SW            | 1          | SAND, GRAVEL, HARD,<br>LOOSE, DRY, FILL, TAN.   | 4500<br>COUNTS<br>NET<br>PPM<br>PID |                                   | 5400<br>5713<br>1541         | 15<br>2.0 Recovery                                                                                  |
| GW            | 2          | SILT, CLAY,<br>BRICK, HARD, DENSE,<br>DRY, FILL | 4700<br>COUNTS<br>NET<br>PPM<br>PID |                                   | 5400<br>5735<br>1545         |                                                                                                     |
|               | 3          | TD                                              | 2.5                                 | 6+                                | 1550                         | hrs 10/30/00<br>Drum: 2<br>(philips)<br><br>5700 counts<br>NET Background<br>Bentone chip<br>for BF |

5100

PROJECT *FUSRAP/SWS*

WELL NUMBER *SD 5713*

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            |                                             | DISTRICT <u>St. Louis</u>                               |  | HOLE NUMBER <u>SD 5714</u>                    |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|---------------------------------------------|---------------------------------------------------------|--|-----------------------------------------------|--|
| 1. COMPANY NAME <u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            | 2. DRILL SUBCONTRACTOR <u>Geotechnology</u> |                                                         |  | SHEET <u>1</u> OF <u>2</u>                    |  |
| 3. PROJECT <u>FUSRAP/SDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |                                             | 4. LOCATION <u>Ph.D. ps Service</u>                     |  |                                               |  |
| 5. NAME OF DRILLER <u>JIM McDONALD</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |                                             | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>CME - 55</u>  |  |                                               |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>Hollow Stem Auger</u><br><u>Split Spoon</u>                                                                                                                                                                                                                                                                                                                                                                                                         |  |            |                                             | 8. HOLE LOCATION <u>Plant Class 2</u>                   |  |                                               |  |
| 9. SURFACE ELEVATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |            |                                             | 10. DATE STARTED <u>10/18/00</u>                        |  |                                               |  |
| 11. DATE COMPLETED <u>10/18/00</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |            |                                             | 12. OVERBURDEN THICKNESS                                |  |                                               |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |            |                                             | 14. DEPTH GROUNDWATER ENCOUNTERED <u>N/A</u>            |  |                                               |  |
| 15. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |            |                                             | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u> |  |                                               |  |
| 17. GEOTECHNICAL SAMPLES <u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | DISTURBED  |                                             | UNDISTURBED                                             |  | 18. TOTAL NUMBER OF CORE BOXES                |  |
| 19. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | VOC        |                                             | METALS                                                  |  | OTHER (SPECIFY) <u>RAD</u>                    |  |
| 20. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | BACKFILLED |                                             | MONITORING WELL                                         |  | 21. SIGNATURE OF INSPECTOR <u>[Signature]</u> |  |
| 22. TOTAL CORE RECOVERY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |            |                                             | 23. SIGNATURE OF INSPECTOR <u>[Signature]</u>           |  |                                               |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |                                             |                                                         |  |                                               |  |
| SCALE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |                                             |                                                         |  |                                               |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; right: 10%; font-size: 2em;">↑ N</div> <div style="position: absolute; top: 40%; left: 40%; border: 1px solid black; padding: 10px; text-align: center;"> <u>Building</u> </div> <div style="position: absolute; top: 70%; left: 60%; text-align: center;"> <u>SD</u><br/><u>5714</u> </div> <div style="position: absolute; top: 80%; left: 20%; text-align: center;"> <u>Building</u> </div> </div> |  |            |                                             |                                                         |  |                                               |  |
| PROJECT <u>FUSRAP/SDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |                                             |                                                         |  | HOLE NO. <u>SD 5714</u>                       |  |

| HTRW DRILLING LOG           |                 |                                                                    |                                     |                                |                              |                                                                                                                                                                            |
|-----------------------------|-----------------|--------------------------------------------------------------------|-------------------------------------|--------------------------------|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROJECT <i>FUSRAP/SND</i>   |                 |                                                                    | WELL NO. <i>5714</i>                |                                |                              |                                                                                                                                                                            |
| LOCATION <i>Chis. Loc 6</i> |                 |                                                                    | DATE <i>2-2-2</i>                   |                                |                              |                                                                                                                                                                            |
| DEPTH<br>FEET               | DEPTH<br>METERS | DESCRIPTION OF MATERIAL                                            | FIELD COUNTING<br>RESULTS           | DEPTH SAMPLE<br>OR CORE NO. IN | CALIBRATION<br>SAMPLE NO. IN | REMARKS                                                                                                                                                                    |
|                             |                 | concrete                                                           | 4900<br>counts<br>NAT               |                                | 2400<br>5714 Cover           |                                                                                                                                                                            |
|                             |                 |                                                                    |                                     |                                | 1516                         |                                                                                                                                                                            |
|                             | 1               | GRAVEL, SAND,<br>TAN - BROWN, HARD,<br>LOOSE, Dry, FINE<br>Angular | 5300<br>counts<br>NAT<br>DID<br>PID | 0.5<br>m/ft                    | 3400<br>5714<br>1524         | 1.5<br>20 Recovery                                                                                                                                                         |
|                             | 2               |                                                                    | 5500<br>counts<br>NAT<br>PID        |                                | 5400<br>5756<br>1527         |                                                                                                                                                                            |
|                             | 3               | T.D.                                                               | 28"                                 | 1535                           | hrs                          | 10/18/00<br>Draw: T.I<br>(photo's)<br>5700 counts<br>NAT BACKGROUND<br>Bentonek chips<br>for R BF<br><br>T.D. Due<br>to Refusal<br>with O.K. from<br>USACE.<br>Robin Parks |

*FUSRAP/SND*

*5714*



| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                               |  |             |  | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER<br><u>SUP 5715</u> |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------|--|----------------------------------------------------------------------------|--|--------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                        |  |             |  | 2. DRILL SUBCONTRACTOR<br><u>Geotechnology</u>                             |  | SHEET <u>1</u> OF <u>2</u>     |  |
| 3. PROJECT<br><u>FUSRAP/SUP</u>                                                                                                                                                                                                                                                                                                                                                                                                                 |  |             |  | 4. LOCATION<br><u>Ph. Lips Service</u>                                     |  |                                |  |
| 5. NAME OF DRILLER<br><u>Jim McDonald</u>                                                                                                                                                                                                                                                                                                                                                                                                       |  |             |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                    |  |                                |  |
| 7. SIZE AND TYPE OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Stem Auger</u><br><u>Split Spoon</u>                                                                                                                                                                                                                                                                                                                                           |  |             |  | 8. HOLE LOCATION<br><u>CLASS 2</u>                                         |  |                                |  |
| 9. SURFACE ELEVATION                                                                                                                                                                                                                                                                                                                                                                                                                            |  |             |  | 10. DATE STARTED<br><u>10/23/00</u>                                        |  |                                |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                        |  |             |  | 11. DATE COMPLETED<br><u>10/24/00</u>                                      |  |                                |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                     |  |             |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                         |  |             |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                |  |
| 19. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                                        |  |             |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                |  |
| DISTURBED                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | UNDISTURBED |  | 18. TOTAL NUMBER OF CORE BOXES                                             |  |                                |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                               |  | VOC         |  | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAO</u>  |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                         |  | BAGGED      |  | MONITORING WELL                                                            |  | 21. TOTAL CORE RECOVERY        |  |
| 23. SIGNATURE OF INSPECTOR<br><u>[Signature]</u>                                                                                                                                                                                                                                                                                                                                                                                                |  |             |  | 24. SIGNATURE OF SUPERVISOR<br><u>[Signature]</u>                          |  |                                |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                        |  |             |  |                                                                            |  |                                |  |
| SCALE:                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |             |  |                                                                            |  |                                |  |
| <div style="position: relative;"> <div style="position: absolute; top: 10px; left: 10px;"> <u>Ph. Lips</u><br/><u>Service</u><br/><u>Building</u> </div> <div style="position: absolute; top: 60%; left: 20%;"> <u>Cement</u><br/><u>PAO</u> </div> <div style="position: absolute; top: 70%; left: 40%;"> <u>SUP</u><br/><u>5715</u> </div> <div style="position: absolute; top: 40%; right: 10%; text-align: center;"> <u>N</u> </div> </div> |  |             |  |                                                                            |  |                                |  |

PROJECT FUSRAP/SUP

HOLE NO. SUP 5715

FORM 5056-R, AUG 84

(Proponent: CECW-EG)

# HTRW DRILLING LOG

| PROJECT   |       | INSPECTOR                                    |                         | HOLE NUMBER                     |                                |
|-----------|-------|----------------------------------------------|-------------------------|---------------------------------|--------------------------------|
| FUSAP/SMS |       | Chris Locke                                  |                         | 540 5715                        |                                |
| BLK. NO.  | DEPTH | DESCRIPTION OF MATERIALS                     | FIELD SCREENING RESULTS | DETECT SAMPLE OR CORN. DEN. NO. | ANALYTICAL SAMPLE NO.          |
|           |       | Concrete                                     | 5500 counts<br>NAT      |                                 | 5400<br>5715 (covered)<br>1105 |
| CL        | 1     | Silty-LEAN clay<br>Brown- HARD LOOSE<br>Dry. | 5700 counts<br>NAT      |                                 | 5400<br>5715<br>1108           |
|           |       | Brick                                        | PDM<br>P20              |                                 |                                |
| SW        | 2     | Slag, Black, HARD,<br>Loose, Dry, Fiel.      | 6300 counts<br>NAT      |                                 | 5400<br>5757                   |
|           |       |                                              | PDM<br>P20              |                                 |                                |
|           | 3     | T.D.                                         | 2.0 ft                  | 1120                            | 111 hrs                        |
|           |       |                                              |                         |                                 | 10/23/00                       |
|           |       |                                              |                         |                                 | Drum: 1<br>(ph. eps)           |
|           |       |                                              |                         |                                 | 5900 counts<br>NAT Background  |
|           |       |                                              |                         |                                 | Bentone chip<br>for BF         |

FUSAP/SMS

540 5715

5900

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |           |                                                 | DISTRICT <u>St. Louis</u>                                  |  | HOLE NUMBER<br><u>540 5716</u>                   |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|-------------------------------------------------|------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |           | 2. DRILL SUBCONTRACTOR<br><u>Geo Technology</u> |                                                            |  | SHEET <u>1</u> OF <u>2</u>                       |  |
| 3. PROJECT<br><u>FUSRAP/SWS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |           |                                                 | 4. LOCATION<br><u>Ph. Lips Sainco</u>                      |  |                                                  |  |
| 5. NAME OF DRILLER<br><u>Jim McDonnell</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |                                                 | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>    |  |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Stem Auger</u><br><u>Split Spoon</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |           | 8. HOLE LOCATION<br><u>Class 2</u>              |                                                            |  |                                                  |  |
| 9. SURFACE ELEVATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |           |                                                 | 10. DATE STARTED<br><u>10/18/00</u>                        |  |                                                  |  |
| 11. DATE COMPLETED<br><u>10/18/00</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |           |                                                 | 12. OVERBURDEN THICKNESS                                   |  |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |           |                                                 | 14. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>            |  |                                                  |  |
| 15. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |                                                 | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u> |  |                                                  |  |
| 17. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |           |                                                 | 18. TOTAL NUMBER OF CORE BOXES                             |  |                                                  |  |
| 19. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | DISTURBED |                                                 | UNDISTURBED                                                |  | 20. TOTAL NUMBER OF CORE BOXES                   |  |
| 21. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | VOC       |                                                 | METALS                                                     |  | OTHER (SPECIFY)<br><u>RAD</u>                    |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | BAGGED    |                                                 | MONITORING WELL                                            |  | 23. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
| 24. LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |           |                                                 | SCALE:                                                     |  |                                                  |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; left: 10%; font-size: 2em;">MCK. Log</div> <div style="position: absolute; top: 10%; right: 10%; font-size: 2em;">Br. Dye</div> <div style="position: absolute; top: 40%; left: 30%; font-size: 1.5em;">RAD</div> <div style="position: absolute; top: 40%; left: 40%; font-size: 1.5em;">ROAD</div> <div style="position: absolute; top: 40%; left: 50%; font-size: 1.5em;">YARD</div> <div style="position: absolute; top: 60%; left: 20%; font-size: 1.5em;">LOADING</div> <div style="position: absolute; top: 60%; left: 45%; font-size: 1.5em;">DOCK</div> <div style="position: absolute; top: 45%; right: 10%; text-align: center;"> <div style="font-size: 2em;">↑</div> <div style="font-size: 1.5em;">N</div> </div> <div style="position: absolute; top: 48%; right: 15%; text-align: center;"> <div style="font-size: 1.2em;">540</div> <div style="font-size: 1.2em;">5716</div> </div> </div> |  |           |                                                 |                                                            |  |                                                  |  |
| PROJECT<br><u>FUSRAP/SWS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |           |                                                 |                                                            |  | HOLE NO.<br><u>540 5716</u>                      |  |

# HTRW DRILLING LOG

| PROJECT     |       | INSPECTOR                                                     |                                 | HOLE NUMBER                   |                                                                                                             |
|-------------|-------|---------------------------------------------------------------|---------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------|
| FUSPAD/SUPs |       | Chris Locke                                                   |                                 | SLD 5716                      |                                                                                                             |
| CL          | DEPTH | DESCRIPTION OF MATERIALS                                      | FIELD LOGGING RESULTS           | TESTED SAMPLE OR CORE BOX NO. | ANALYTICAL SAMPLE NO.                                                                                       |
| CL          | 1     | Silty - lean clay with organic, brown, HARD, loose, Dry, F.E. | 5200 Counts. NET<br>PPM<br>P.D. | 0.5<br>100/61                 | SLD 5716<br>0850                                                                                            |
|             |       | WOOD                                                          | 5500 Counts. NET<br>PPM<br>P.D. |                               |                                                                                                             |
|             | 2     | Silty, Brown, HARD, loose, Dry, F.E., Angular                 |                                 |                               | SLD 5750<br>0854                                                                                            |
| GW          | 3     | T.D.                                                          | 2.0                             | 81 0900                       | his 10/18/00<br>Dinner:<br>(ph. 2ns)<br>4600 counts<br>NET BACK<br>ground<br><br>Bentonite<br>chips for BIT |

4600

SLD/FUSPAD

SLD 5716



| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            |  | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER<br><u>SD 5717</u>                    |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|----------------------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |  | 2. DRILL SUBCONTRACTOR<br><u>Geotechnics</u>                               |  | SHEET<br>1. OF 2                                 |  |
| 3. PROJECT<br><u>FUSAP/SD</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |            |  | 4. LOCATION<br><u>Philips Serv</u>                                         |  |                                                  |  |
| 5. NAME OF DRILLER<br><u>JM McDONARD</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CNC 55</u>                    |  |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>1 1/2" Std. Auger</u><br><u>5000 2000</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  | 8. HOLE LOCATION<br><u>Class 1</u>                                         |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |  | 9. SURFACE ELEVATION                                                       |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |  | 10. DATE STARTED<br><u>10/24/00</u>                                        |  | 11. DATE COMPLETED<br><u>10/26/00</u>            |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |  | 13. DEPTH OF GROUNDWATER ENCOUNTERED<br><u>N/A</u>                         |  |                                                  |  |
| 12. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |            |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                  |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |            |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                  |  |
| 18. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | DISTURBED  |  | UNDISTURBED                                                                |  | 18. TOTAL NUMBER OF CORE BOXES                   |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | VOC        |  | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAD</u>                    |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | BACKFILLED |  | MONITORING WELL                                                            |  | 21. TOTAL CORE RECOVERY                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |  | OTHER (SPECIFY)                                                            |  | 22. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |  |                                                                            |  |                                                  |  |
| SCALE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |  |                                                                            |  |                                                  |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; left: 10%; font-size: 2em;">LOADING</div> <div style="position: absolute; top: 10%; right: 10%; font-size: 2em;">DOCK</div> <div style="position: absolute; top: 30%; left: 30%; font-size: 1.5em;">TRAIN</div> <div style="position: absolute; top: 30%; right: 30%; font-size: 1.5em;">TRACKS</div> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 1.5em;">SD 5717</div> <div style="position: absolute; top: 50%; right: 50%; transform: translate(-50%, -50%); font-size: 1.5em;">SD 5717</div> <div style="position: absolute; top: 60%; left: 10%; font-size: 1.2em;">           PHILIPS<br/>SERV<br/>SDAP<br/>BUILDING         </div> <div style="position: absolute; top: 40%; right: 10%; font-size: 2em;">N</div> </div> |  |            |  |                                                                            |  |                                                  |  |
| PROJECT <u>FUSAP/SD</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |            |  |                                                                            |  | HOLE NO.<br><u>SD 5717</u>                       |  |

FORM 5086-R, AUG 94

(Proponent: CECW-EG)

# HTRW DRILLING LOG

| PROJECT    |            | INSPECTOR                                     |                         | DATE                           |                                                                       |
|------------|------------|-----------------------------------------------|-------------------------|--------------------------------|-----------------------------------------------------------------------|
| FUSAP/SWS  |            | Chris Lock                                    |                         | 10/20/00                       |                                                                       |
| ELEV. (ft) | DEPTH (ft) | DESCRIPTION OF MATERIALS                      | FIELD SCREENING RESULTS | SECTION SAMPLE OR CORE BOX NO. | ANALYTICAL SAMPLE NO.                                                 |
|            |            | CONCRETE                                      | 5100 counts NCT         |                                | 5400 5717 1035                                                        |
| GW 1       | 1          | GRAVEL, SAND, HARD, LOOSE, DRY BROWN, Angular | 5500 counts NCT PPM PTD | 0.5 - 100/1000                 | 5400 5717 1045                                                        |
| GW 2       | 2          | GRAVEL, SAND, TAN, LOOSE, DRY FILL, Angular   | 5100 counts NCT PPM PTD |                                | 5400 5717 1047                                                        |
|            | 3          | T.O                                           | 25                      | 81 1055 hrs                    | 10/24/00                                                              |
|            |            |                                               |                         |                                | Drum: 1 (p.h. l.p.s) 500 counts NCT Background Bentonite chip for BF. |

PROJECT

FUSAP/SWS

WELL NO.

SND 5717

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |            |  | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER <u>320 5718</u>                      |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|----------------------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |  | 2. DRILL SUBCONTRACTOR<br><u>Geotechnology</u>                             |  | SHEET <u>1</u> OF <u>2</u>                       |  |
| 3. PROJECT<br><u>FUSRAP/SOS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  | 4. LOCATION<br><u>Philips Service</u>                                      |  |                                                  |  |
| 5. NAME OF DRILLER<br><u>JIM McDONALD</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                    |  |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow 2" Auger</u><br><u>SPRT 3000N</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |            |  | 8. HOLE LOCATION<br><u>CHAS 2</u>                                          |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  | 9. SURFACE ELEVATION                                                       |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  | 10. DATE STARTED<br><u>10/30/06</u>                                        |  | 11. DATE COMPLETED<br><u>10/30/06</u>            |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |  | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                  |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |            |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                  |  |
| 16. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | DISTURBED  |  | UNDISTURBED                                                                |  | 18. TOTAL NUMBER OF CORE BOXES                   |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | VOC        |  | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAO</u>                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  |                                                                            |  | 21. TOTAL CORE RECOVERY                          |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | BACKFILLED |  | MONITORING WELL                                                            |  | 23. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |  | SCALE:                                                                     |  |                                                  |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10px; left: 10px; border: 1px solid black; padding: 5px;">           5 MAY<br/>21 10 AM         </div> <div style="position: absolute; top: 40%; left: 40%;">           6217         </div> <div style="position: absolute; top: 60%; left: 50%;">           540<br/>5718         </div> <div style="position: absolute; top: 70%; left: 40%;">           540<br/>6218         </div> <div style="position: absolute; top: 10%; right: 10%; text-align: right;">           ↑ N         </div> </div> |  |            |  |                                                                            |  |                                                  |  |
| PROJECT <u>FUSRAP/SOS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |  |                                                                            |  | HOLE NO. <u>320 5718</u>                         |  |

FORM 5056-R, AUG 94

(Proponent: CECW-EQ)

# HTRW DRILLING LOG

PROJECT FUSRAP/SND

INSPECTOR Chris Cook

HOLE NUMBER SND 5718

SHEET 2 OF 2

| DEPTH<br>IN | DEPTH<br>FT | DESCRIPTION OF MATERIALS<br>NO.                                               | FIELD SCREENING<br>RESULTS<br>NO.                                                        | DEPTH SAMPLE<br>OR CORE NO. NO. | ANALYTICAL<br>SAMPLE NO.<br>NO. | REMARKS                                                                               |
|-------------|-------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------|---------------------------------|---------------------------------------------------------------------------------------|
| GW          | 1           | GRAVEL, SAND, S.O.B<br>LEAD CLAY<br>BROWN - HARD, LOOSE<br>Dry, Fine, Angular | 5200<br>COUNTS<br>NCT<br>0.5<br>PPM<br>P20<br>5700<br>COUNTS<br>NCT<br>0.5<br>PPM<br>P20 |                                 | 5200<br>5718<br>1126            | 2.0<br>2.0 ROUNDS                                                                     |
|             | 2           |                                                                               |                                                                                          |                                 | 3400<br>5760<br>1120            |                                                                                       |
|             | 3           | T.D.                                                                          | 2.0 ft                                                                                   | 1140                            | 1140                            | 10/30/00<br>Drum:<br>(philips)<br>5600 counts<br>NCT BACKLOG<br>Bentomk Chr<br>for BF |

5600

PROJECT FUSRAP/SND

HOLE NUMBER SND 5718

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                              |  | DISTRICT <u>St. Louis</u>  |                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------|--|----------------------------|----------------------------|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 2. DRILL SUBCONTRACTOR<br><u>Geotechnology</u>               |  |                            | SHEET <u>1</u> OF <u>2</u> |
| 3. PROJECT<br><u>FUSRAP/GDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | 4. LOCATION<br><u>Ph.D. ps Service</u>                       |  |                            |                            |
| 5. NAME OF DRILLER<br><u>JIM McDONALD</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>      |  |                            |                            |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow SPN Auger</u><br><u>SPR-1 20" R</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | 8. HOLE LOCATION<br><u>Dominion</u>                          |  |                            |                            |
| 9. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 10. DATE STARTED<br><u>10/15/62</u>                          |  |                            |                            |
| 11. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | 12. DATE COMPLETED<br><u>10/30/62</u>                        |  |                            |                            |
| 13. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 14. DEPTH GROUNDWATER ENCOUNTERED                            |  |                            |                            |
| 15. DISTURBED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED |  |                            |                            |
| 17. UNDISTURBED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)                 |  |                            |                            |
| 18. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | 19. TOTAL NUMBER OF CORE BOXES                               |  |                            |                            |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | VOC                                                          |  | METALS                     |                            |
| 21. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | OTHER (SPECIFY)<br><u>RAD</u>                                |  | 22. TOTAL CORE RECOVERY    |                            |
| 23. BACKFILLED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | MONITORING WELL                                              |  | 23. SIGNATURE OF INSPECTOR |                            |
| 24. OTHER (SPECIFY)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                              |  |                            |                            |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                              |  |                            |                            |
| SCALE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                              |  |                            |                            |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; left: 10%; font-size: 2em;">RR</div> <div style="position: absolute; top: 10%; left: 30%; font-size: 2em;">SPUR</div> <div style="position: absolute; top: 30%; left: 20%; font-size: 1.5em;">SLD 5719</div> <div style="position: absolute; top: 50%; left: 40%; font-size: 1.5em;">62' R</div> <div style="position: absolute; top: 60%; left: 60%; font-size: 1.5em;">SLD 5722</div> <div style="position: absolute; top: 80%; left: 10%; font-size: 2em;">RR</div> <div style="position: absolute; top: 80%; left: 30%; font-size: 2em;">SPUR</div> </div> |  |                                                              |  |                            |                            |
| PROJECT <u>FUSRAP/GDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                                              |  |                            |                            |



| HTRW DRILLING LOG         |            |                                                                           |                                                                                            |                                   |                               | SLD 5719                                                                                                   |
|---------------------------|------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------|
| PROJECT <i>FUSAP/SIDS</i> |            | INSPECTOR <i>Chris Lock</i>                                               |                                                                                            | SHEET <i>2</i> OF <i>2</i>        |                               |                                                                                                            |
| BLK. NO.                  | DEPTH (ft) | DESCRIPTION OF MATERIALS                                                  | FIELD SCANNING RESULTS                                                                     | SECTION SAMPLE OR CORE IDENT. NO. | ANALYTICAL SAMPLE NO.         | REMARKS                                                                                                    |
| <i>GW</i>                 | <i>1</i>   | <i>GRAVEL, Silty, SAND<br/>Brown, HARD, LOOSE,<br/>Dry, Fair. Angular</i> | <i>6200<br/>COUNTS<br/>NET<br/>PPH<br/>PED<br/>5700<br/>COUNTS<br/>NET<br/>PPH<br/>PED</i> | <i>0.5<br/>ton/6"²</i>            | <i>5700<br/>5719<br/>0945</i> | <i>1.6<br/>2.0 Recovery</i>                                                                                |
|                           | <i>2</i>   |                                                                           |                                                                                            |                                   | <i>5700<br/>5701<br/>0946</i> |                                                                                                            |
|                           | <i>3</i>   |                                                                           |                                                                                            |                                   |                               |                                                                                                            |
|                           |            | <i>TID</i>                                                                | <i>2.0 ft</i>                                                                              | <i>1000 lbs</i>                   |                               | <i>10/30/00<br/>Drum:<br/>(ph. lips)<br/>5600 counts<br/>NET Background<br/>Bentonite chips<br/>for BF</i> |

FLS RAP/suns

542 3 5719

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                |  | DISTRICT <u>St. Louis</u>                                                  |  | SLD 5720                                         |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------|--|----------------------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 2. DRILL SUBCONTRACTOR<br><u>Geotechnology</u> |  |                                                                            |  | SHEET <u>1</u> OF <u>2</u>                       |  |
| 3. PROJECT<br><u>FUSRAQ/SUP</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                |  | 4. LOCATION<br><u>Philip Service</u>                                       |  |                                                  |  |
| 5. NAME OF DRILLER<br><u>J.M. McDONALD</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                                |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                    |  |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Stem Auger</u><br><u>SPE + SAW</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | 8. HOLE LOCATION<br><u>Class 2</u>             |  |                                                                            |  |                                                  |  |
| 9. SURFACE ELEVATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                |  | 10. DATE STARTED<br><u>10/1/70</u>                                         |  |                                                  |  |
| 11. DATE COMPLETED<br><u>10/1/70</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                |  | 12. OVERBURDEN THICKNESS                                                   |  |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                |  | 14. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                                  |  |
| 15. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                  |  |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                                |  | 18. TOTAL NUMBER OF CORE BOXES                                             |  |                                                  |  |
| 19. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | DISTURBED                                      |  | UNDISTURBED                                                                |  | 20. TOTAL NUMBER OF CORE BOXES                   |  |
| 21. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | VOC                                            |  | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAD</u>                    |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | BACKFILLED                                     |  | MONITORING WELL                                                            |  | 23. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
| 24. TOTAL CORE RECOVERY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                |  | 25. SIGNATURE OF INSPECTOR<br><u>[Signature]</u>                           |  |                                                  |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                                |  |                                                                            |  |                                                  |  |
| SCALE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                |  |                                                                            |  |                                                  |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; left: 10%; font-size: 2em;">MCKINLEY</div> <div style="position: absolute; top: 10%; left: 40%; font-size: 2em;">BRIDGE</div> <div style="position: absolute; top: 40%; left: 30%; font-size: 1.5em;">313</div> <div style="position: absolute; top: 50%; left: 40%; font-size: 1.2em;">DUP<br/>SLD</div> <div style="position: absolute; top: 55%; left: 45%; font-size: 1.2em;">• SLD 5720</div> <div style="position: absolute; top: 60%; left: 50%; font-size: 1.2em;">RR YARD</div> <div style="position: absolute; top: 65%; left: 45%; font-size: 1.2em;">AKF<br/>SLD 5720</div> <div style="position: absolute; top: 70%; left: 40%; font-size: 1.2em;">OK to<br/>RAD</div> <div style="position: absolute; top: 80%; left: 35%; font-size: 2em;">Building</div> <div style="position: absolute; top: 40%; left: 80%; font-size: 2em;">↑ N</div> </div> |  |                                                |  |                                                                            |  |                                                  |  |
| PROJECT<br><u>FUSRAQ/SUP</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                |  | HOLE NO.<br><u>SLD 5720</u>                                                |  |                                                  |  |

# HTRW DRILLING LOG

| PROJECT    |       | INSPECTOR                                                        |                             | FILE NUMBER                    |                         |
|------------|-------|------------------------------------------------------------------|-----------------------------|--------------------------------|-------------------------|
| FUSAP/SUDS |       | Chris Webb                                                       |                             | SUD 5720                       |                         |
| BLK#       | DEPTH | DESCRIPTION OF MATERIALS                                         | FIELD MEASUREMENTS          | SECTION SAMPLE OR CORE BOX NO. | ANALYTICAL SAMPLE NO.   |
| CL         | 1     | S.ely LAM clay with gravel, Brown, HARD, LOOSE (Moist from Rain) | 5300 Counts. NAI PPM PSD    | 0.5 ton/6"                     | 5400 5720 1334          |
| GW         | 2     | Sly with LAM clay, Black, HARD, LOOSE, Moist (from Rain)         | 5900 Counts NAI DIO PPM PSD |                                | 5400 5762 1537H         |
|            | 3     | TID. 20 ft                                                       |                             | 1545 hrs                       | 10/17/00                |
|            |       |                                                                  |                             |                                | Drum: (ph. lps)         |
|            |       |                                                                  |                             |                                | 5200 Counts             |
|            |       |                                                                  |                             |                                | NAI Background          |
|            |       |                                                                  |                             |                                | Bentonite Chips for BF. |

5200

| HTRW DRILLING LOG                                                                                                               |  |                                                |                                             | DISTRICT <u>St. Louis</u>                                               |  | HOLE NUMBER <u>540 521</u>                    |  |
|---------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------|---------------------------------------------|-------------------------------------------------------------------------|--|-----------------------------------------------|--|
| 1. COMPANY NAME <u>IT Corporation</u>                                                                                           |  |                                                | 2. DRILL SUBCONTRACTOR <u>Geotechnologs</u> |                                                                         |  | SHEET <u>1</u> OF <u>2</u>                    |  |
| 3. PROJECT <u>FUSAP/SIDS</u>                                                                                                    |  |                                                |                                             | 4. LOCATION <u>Philips Service</u>                                      |  |                                               |  |
| 5. NAME OF DRILLER <u>Jim McDonald</u>                                                                                          |  |                                                |                                             | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>CME 55</u>                    |  |                                               |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT                                                                           |  | <u>Hollow Stem Auger</u><br><u>SPB-1 Spoon</u> |                                             | 8. HOLE LOCATION <u>CLASS 2</u>                                         |  | 9. SURFACE ELEVATION                          |  |
| 10. DATE STARTED <u>10/19/60</u>                                                                                                |  |                                                |                                             | 11. DATE COMPLETED <u>10/19/60</u>                                      |  |                                               |  |
| 12. OVERBURDEN THICKNESS                                                                                                        |  |                                                |                                             | 13. DEPTH GROUNDWATER ENCOUNTERED <u>N/A</u>                            |  |                                               |  |
| 14. DEPTH DRILLED INTO ROCK                                                                                                     |  |                                                |                                             | 15. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u> |  |                                               |  |
| 16. TOTAL DEPTH OF HOLE                                                                                                         |  |                                                |                                             | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u>                 |  |                                               |  |
| 18. GEOTECHNICAL SAMPLES                                                                                                        |  | DISTURBED                                      |                                             | UNDISTURBED                                                             |  | 19. TOTAL NUMBER OF CORE BOXES                |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                               |  | VOC                                            |                                             | METALS                                                                  |  | OTHER (SPECIFY) <u>RAD</u>                    |  |
| 21. DISPOSITION OF HOLE                                                                                                         |  | BAGGED                                         |                                             | MONITORING WELL                                                         |  | 22. SIGNATURE OF INSPECTOR <u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                        |  |                                                |                                             |                                                                         |  |                                               |  |
| SCALE:                                                                                                                          |  |                                                |                                             |                                                                         |  |                                               |  |
| <div style="display: flex; justify-content: space-between;"> <span><u>540 6218</u></span> <span><u>540 5721</u></span> </div>   |  |                                                |                                             |                                                                         |  |                                               |  |
| <div style="display: flex; justify-content: space-between;"> <span><u>Mallick Rd</u></span> <span><u>Property</u></span> </div> |  |                                                |                                             |                                                                         |  |                                               |  |

PROJECT FUSAP/SIDS

HOLE NO. 540 5721

FORM 5056-R, AUG 94

(Proponent: CECW-EG)

# HTRW DRILLING LOG

| PROJECT |       | INSPECTOR                                      |                                                              |                                  |                       | WELL NUMBER<br>SLD 5721                                                                              |  |
|---------|-------|------------------------------------------------|--------------------------------------------------------------|----------------------------------|-----------------------|------------------------------------------------------------------------------------------------------|--|
| DEPT.   | DEPTH | DESCRIPTION OF MATERIALS                       | FIELD SCREENING RESULTS                                      | CORRECTED SAMPLE OR CORE BOX NO. | ANALYTICAL SAMPLE NO. | REMARKS                                                                                              |  |
|         | 1     | SA-9 GRAVEL,<br>Brown HARD, LOOSE<br>Dry, F.V. | 5100<br>COUNTS<br>NAT<br>PPM<br>PSS<br>5600<br>COUNTS<br>NAT | 0.5<br>ton/ft <sup>2</sup>       | 5400<br>5721<br>0856  | 2.0 Recovery                                                                                         |  |
|         | 2     |                                                |                                                              |                                  | 3400<br>5721<br>0856  | 5763                                                                                                 |  |
|         | 3     | TID.                                           | 2.0 ft                                                       | D905                             |                       | hs 10/19/00<br>Drum: 1 (p. 10/19/00)<br>5400 counts<br>NAT Background<br>Bentonite chip<br>for R BF. |  |

5400

PROJECT FUSPAB/SWD

WELL NO. SLD 5721



| HTRW DRILLING LOG                                                                                                                                                                          |  |                                          |  | DISTRICT <u>St. Louis</u>                                               |  | HOLE NUMBER <u>5720</u>            |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------|--|-------------------------------------------------------------------------|--|------------------------------------|--|
| 1. COMPANY NAME <u>FT Corporation</u>                                                                                                                                                      |  |                                          |  | 2. DRILL SUBCONTRACTOR <u>Geotech Inc.</u>                              |  | SHEET <u>1</u> OF <u>2</u>         |  |
| 3. PROJECT <u>FUSRAP/SUDS</u>                                                                                                                                                              |  |                                          |  | 4. LOCATION <u>Philips Sarnen</u>                                       |  |                                    |  |
| 5. NAME OF DRILLER <u>JIM McDONALD</u>                                                                                                                                                     |  |                                          |  | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>CME 35</u>                    |  |                                    |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT                                                                                                                                      |  | <u>Hollow Stem Auger</u><br><u>Spoon</u> |  | 8. HOLE LOCATION <u>CLASS 2</u>                                         |  | 9. SURFACE ELEVATION               |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                   |  |                                          |  | 10. DATE STARTED <u>10/20/00</u>                                        |  | 11. DATE COMPLETED <u>10/24/00</u> |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                |  |                                          |  | 15. DEPTH GROUNDWATER ENCOUNTERED <u>N/A</u>                            |  |                                    |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                    |  |                                          |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u> |  |                                    |  |
| 18. GEOTECHNICAL SAMPLES                                                                                                                                                                   |  |                                          |  | 19. TOTAL NUMBER OF CORE BOXES                                          |  |                                    |  |
| DISTURBED                                                                                                                                                                                  |  | UNDISTURBED                              |  | 20. SAMPLES FOR CHEMICAL ANALYSIS                                       |  | 21. TOTAL CORE RECOVERY            |  |
| VOC                                                                                                                                                                                        |  | METALS                                   |  | OTHER (SPECIFY) <u>RAO</u>                                              |  | OTHER (SPECIFY)                    |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                    |  | 23. SIGNATURE OF INSPECTOR               |  | 24. SIGNATURE OF INSPECTOR                                              |  | 25. SIGNATURE OF INSPECTOR         |  |
| BAG FILLED                                                                                                                                                                                 |  | MONITORING WELL                          |  | OTHER (SPECIFY)                                                         |  | OTHER (SPECIFY)                    |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                   |  |                                          |  |                                                                         |  |                                    |  |
| SCALE:                                                                                                                                                                                     |  |                                          |  |                                                                         |  |                                    |  |
| <div style="display: flex; justify-content: space-between; align-items: center;"> <div> <u>RR</u> </div> <div> <u>SPUR</u> </div> <div> <u>5720</u> </div> <div> <u>5722</u> </div> </div> |  |                                          |  |                                                                         |  |                                    |  |
| <div style="display: flex; justify-content: space-between; align-items: center;"> <div> <u>RR</u> </div> <div> <u>SPUR</u> </div> </div>                                                   |  |                                          |  |                                                                         |  |                                    |  |

PROJECT FUSRAP/SUDS

HOLE NO. 5720

FORM 5056-R, AUG 94

(Proponent: CSCW-EG)

# HTRW DRILLING LOG

PROJECT *FUSRAP/SUDS*

INSPECTOR *Chris Lock*

WELL NUMBER *SUD 5722*

SHEET *2* OF *2*

| CLAY<br>LOG | DEPTH<br>IN | DESCRIPTION OF MATERIALS<br>NO.                                   | FIELD SCREENING<br>RESULTS<br>COUNTS<br>NET<br>PPM<br>PSP | DELETED SAMPLE<br>ON CORE DEPTH<br>IN | ANALYTICAL<br>SAMPLE NO.<br>IN | REMARKS                                                                                                                                                                         |
|-------------|-------------|-------------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>SW</i>   | <i>1</i>    | <i>SAND GRAVEL,<br/>Brown, HARD, LOOSE<br/>Dry, FINE, Angular</i> | <i>5600<br/>COUNTS<br/>NET<br/>PPM<br/>PSP</i>            | <i>0.5<br/>in/ft.</i>                 | <i>5400<br/>5800<br/>1036</i>  | <i>1.5<br/>2.0 Rows</i>                                                                                                                                                         |
|             | <i>2</i>    |                                                                   | <i>5700<br/>COUNTS<br/>NET<br/>PPM<br/>PSP</i>            |                                       | <i>5400<br/>5700<br/>1041</i>  |                                                                                                                                                                                 |
|             | <i>3</i>    |                                                                   | <i>TID</i>                                                | <i>2 1/2</i>                          | <i>INCH</i>                    | <i>1050 his 10/30/12<br/>Drum: 5600<br/>COUNTS NET<br/>Background<br/>Bentonite Chip<br/>for BF<br/><br/>TID Due<br/>to Refuse<br/>with Oil<br/>from USACE<br/>O-Ridge Park</i> |
|             |             |                                                                   |                                                           |                                       |                                |                                                                                                                                                                                 |

*5700*

*(5600)*

PROJECT *FUSRAP/SUDS*

WELL NUMBER *SUD 5722*

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |            |  | DISTRICT <u>SL. Loc.</u>                                                   |  | HOLE NUMBER<br><u>SD 523</u>                     |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|----------------------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |            |  | 2. DRILL SUBCONTRACTOR<br><u>Geotechnology</u>                             |  | SHEET <u>1</u> OF <u>2</u>                       |  |
| 3. PROJECT<br><u>FUSRAP/SMS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |  | 4. LOCATION<br><u>Ph. 2.1 Services</u>                                     |  |                                                  |  |
| 5. NAME OF DRILLER<br><u>Kevin Bassler</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                    |  |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Stem Auger</u><br><u>SPRt Spoon</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  | 8. HOLE LOCATION<br><u>CLASS 2</u>                                         |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |  | 9. SURFACE ELEVATION                                                       |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |  | 10. DATE STARTED<br><u>11/14/02</u>                                        |  | 11. DATE COMPLETED<br><u>11/14/02</u>            |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |            |  | 13. DEPTH OF GROUNDWATER ENCOUNTERED<br><u>N/A</u>                         |  |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |            |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                  |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                  |  |
| 16. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | DISTURBED  |  | UNDISTURBED                                                                |  | 18. TOTAL NUMBER OF CORE BOXES                   |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | VOC        |  | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAD</u>                    |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | BACKFILLED |  | MONITORING WELL                                                            |  | 21. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |            |  |                                                                            |  |                                                  |  |
| SCALE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  |                                                                            |  |                                                  |  |
| <div style="position: relative; width: 100%; height: 100%;"> <span style="position: absolute; top: 10%; left: 10%; font-size: 2em;">McKinley</span> <span style="position: absolute; top: 15%; left: 45%; font-size: 2em;">Br. Oz.</span> <span style="position: absolute; top: 10%; right: 10%; font-size: 3em;">↑ N</span> <div style="position: absolute; top: 60%; left: 35%; text-align: center;"> <u>540</u><br/> <u>523</u> </div> <div style="position: absolute; top: 80%; left: 25%; text-align: center;"> <u>540</u><br/> <u>524</u> </div> </div> |  |            |  |                                                                            |  |                                                  |  |
| PROJECT <u>FUSRAP/SMS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |  |                                                                            |  | HOLE NO.<br><u>SD 523</u>                        |  |

FORM 5056-R, AUG 94

(Proponent CECW-EG)

# HTRW DRILLING LOG

| PROJECT     |  | INSPECTOR                         |  | WELL NUMBER           |  |
|-------------|--|-----------------------------------|--|-----------------------|--|
| FUSION/SURS |  | Chris Lock                        |  | 540 5723              |  |
| DEPTH       |  | DESCRIPTION OF MATERIALS          |  | ANALYTICAL SAMPLE NO. |  |
| 6W          |  | CONCRETE                          |  | 5721                  |  |
| 1           |  | SING. BRCH, HARD, LOOSE, FILL     |  | 5723                  |  |
| 2           |  | BRCH. RAP                         |  | 0908                  |  |
| 3           |  | SING. BRCH, HARD, LOOSE, DY. FILL |  | 5700                  |  |
|             |  |                                   |  | 5765                  |  |
|             |  |                                   |  | 0911                  |  |
|             |  | TID 2 7 ft                        |  | 0920 hrs              |  |

1.5 / 2.0 Recovery  
 Strong ODOR  
 N/A  
 11/14/00  
 Drums: 2  
 (1, 2 m. e. and)  
 5700 counts  
 N.I. Background  
 Bentonite Clay

(5700)

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |  | DISTRICT <u>SL. Louis</u>                                                  |  | HOLE NUMBER<br><u>S-0 5724</u>                   |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|----------------------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |  | 2. DRILL SUBCONTRACTOR<br><u>Geotechnologs</u>                             |  | SHEET <u>1</u> OF <u>2</u>                       |  |
| 3. PROJECT<br><u>FUSRAP/SOS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |            |  | 4. LOCATION<br><u>Philips Services</u>                                     |  |                                                  |  |
| 5. NAME OF DRILLER<br><u>Kevin Bossler</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                    |  |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Sta Auger</u><br><u>SPR-1 SPDR</u>                                                                                                                                                                                                                                                                                                                                                                                                          |  |            |  | 8. HOLE LOCATION<br><u>CLASS 2</u>                                         |  |                                                  |  |
| 9. SURFACE ELEVATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |            |  | 10. DATE STARTED<br><u>11/14/00</u>                                        |  |                                                  |  |
| 11. DATE COMPLETED<br><u>11/14/00</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |            |  | 12. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                                  |  |
| 13. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                  |  |
| 15. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |  | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                  |  |
| 17. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  | 18. TOTAL NUMBER OF CORE BOXES                                             |  |                                                  |  |
| 19. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | DISTURBED  |  | UNDISTURBED                                                                |  | 20. TOTAL CORE RECOVERY                          |  |
| 21. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | VOC        |  | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAO</u>                    |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | BACKFILLED |  | MONITORING WELL                                                            |  | 23. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |  |                                                                            |  |                                                  |  |
| SCALE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |            |  |                                                                            |  |                                                  |  |
| <div style="display: flex; justify-content: space-between;"> <span><u>McK. Hwy</u></span> <span><u>Br. Dyke</u></span> </div> <div style="text-align: right; margin-top: 20px;"> <u>N</u> </div> <div style="text-align: center; margin-top: 100px;"> <u>S-0 5724</u> </div> <div style="text-align: right; margin-top: 100px;"> <u>S-0 6285</u> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <span><u>Mallickville</u></span> <span><u>Proprietary</u></span> </div> |  |            |  |                                                                            |  |                                                  |  |
| PROJECT <u>FUSRAP/SOS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |            |  |                                                                            |  | HOLE NO.<br><u>S-0 5724</u>                      |  |



# HTRW DRILLING LOG

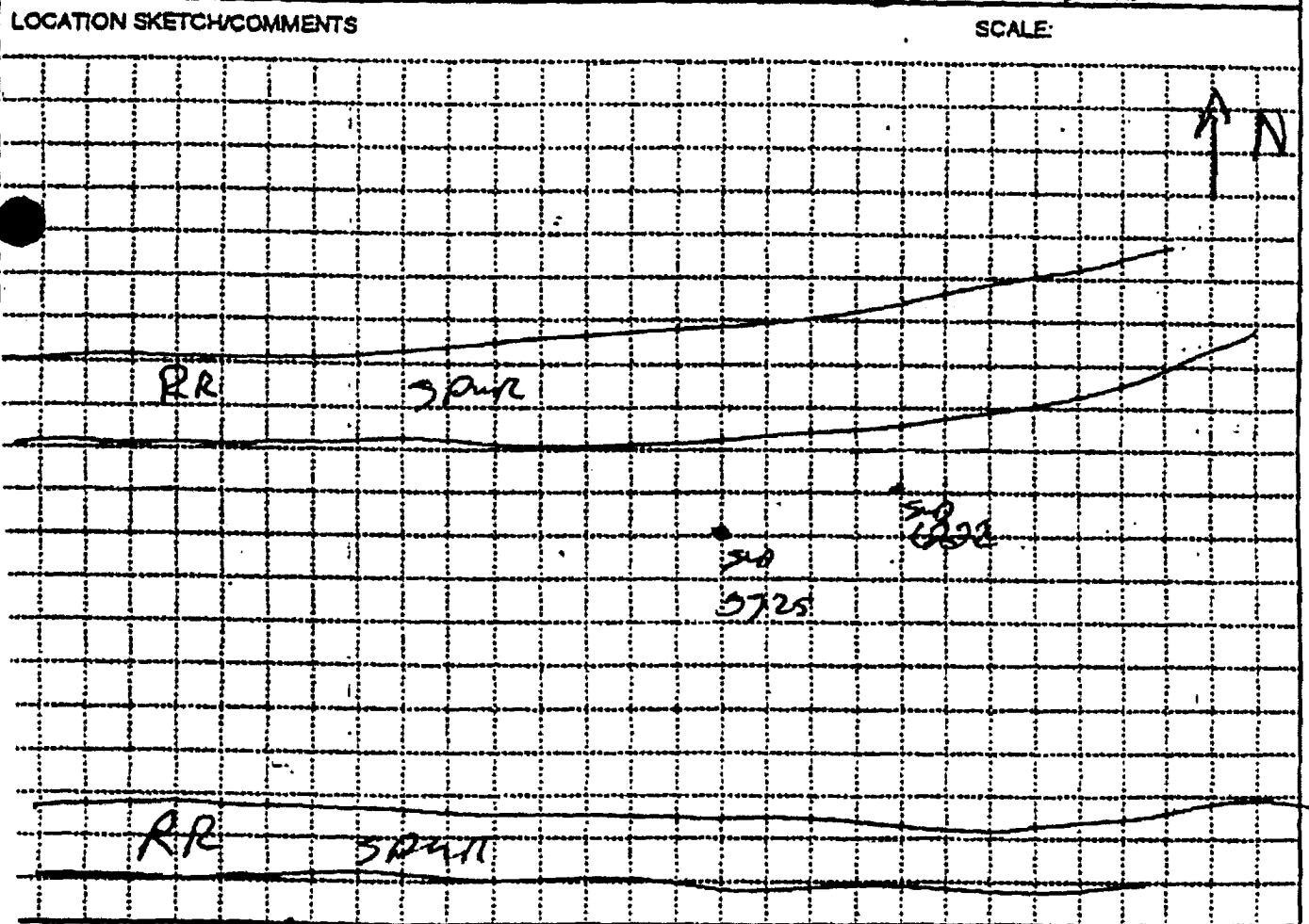
| PROJECT   |                                                                      | INSPECTOR                                                               |                                 | HOLE NUMBER            |                                                                                                   |
|-----------|----------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------|------------------------|---------------------------------------------------------------------------------------------------|
| FUSRAP/SW |                                                                      | Chris Luck                                                              |                                 | SW 5724                |                                                                                                   |
| SHEET     |                                                                      | SHEET                                                                   |                                 | SHEET                  |                                                                                                   |
| 2         |                                                                      | 2                                                                       |                                 | 2                      |                                                                                                   |
| DEPTH     | DESCRIPTION OF MATERIALS                                             | FIELD SCREENING RESULTS                                                 | DETECT SAMPLE ON CORE DEPT. NO. | ANALYTICAL SAMPLE NO.  | REMARKS                                                                                           |
| 1         | Silt. Lean Clay<br>with silt.<br>Brown, HARD LOOSE<br>wet (from RAN) | 4600<br>counts<br>NaI<br>ppm<br>Pb<br>SWD<br>counts<br>NaI<br>ppm<br>Pb | 1.0<br>ton/ft                   | SWD<br>5724<br>1001 hr | 1.5<br>20 recovery                                                                                |
| 2         | SIAS, Black, HARD,<br>LOOSE, Dry, FLI.<br>ANGULAR                    |                                                                         |                                 | 1006<br>SWD<br>5724    |                                                                                                   |
| 3         | T.D. 2.0 ft                                                          |                                                                         | 1015                            | hr                     | 11/14/00<br>Draw: 2<br>(1st. 2. 3. 5)<br>5000 counts<br>NaI Background<br>Bentham Chip<br>for BF. |

5000

SW/FUSRAP

SW 5724

|                                                                                                       |  |                                                                         |  |                                    |  |
|-------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------|--|------------------------------------|--|
| <b>HTRW DRILLING LOG</b>                                                                              |  | DISTRICT <u>St. Louis</u>                                               |  | HOLE NUMBER <u>540 5725</u>        |  |
| 1. COMPANY NAME <u>IT Corporation</u>                                                                 |  | 2. DRILL SUBCONTRACTOR <u>Geotech Nohys</u>                             |  | SHEET <u>1</u> OF <u>2</u>         |  |
| 3. PROJECT <u>FUSRAP/SUDS</u>                                                                         |  | 4. LOCATION <u>Philips Service</u>                                      |  |                                    |  |
| 5. NAME OF DRILLER <u>JIM McDONALD</u>                                                                |  | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>CME 55</u>                    |  |                                    |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>Hollow 3" AM Auger</u><br><u>SPH 3" 3000</u> |  | 8. HOLE LOCATION <u>CIA 23 2</u>                                        |  |                                    |  |
|                                                                                                       |  | 9. SURFACE ELEVATION                                                    |  |                                    |  |
|                                                                                                       |  | 10. DATE STARTED <u>10/30/00</u>                                        |  | 11. DATE COMPLETED <u>10/30/00</u> |  |
| 12. OVERBURDEN THICKNESS                                                                              |  | 13. DEPTH GROUNDWATER ENCOUNTERED <u>N/A</u>                            |  |                                    |  |
| 13. DEPTH DRILLED INTO ROCK                                                                           |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u> |  |                                    |  |
| 14. TOTAL DEPTH OF HOLE                                                                               |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u>                 |  |                                    |  |
| 16. GEOTECHNICAL SAMPLES                                                                              |  | 17. TOTAL NUMBER OF CORE BOXES                                          |  |                                    |  |
| 18. SAMPLES FOR CHEMICAL ANALYSIS                                                                     |  | 19. TOTAL CORE RECOVERY                                                 |  |                                    |  |
| 20. DISPOSITION OF HOLE                                                                               |  | 21. SIGNATURE OF INSPECTOR <u>[Signature]</u>                           |  |                                    |  |



|                            |                          |
|----------------------------|--------------------------|
| PROJECT <u>FUSRAP/SUDS</u> | HOLE NO. <u>540 5725</u> |
| FORM 5058-R, AUG 84        | (Proponent: CECW-EQ)     |

# HTRW DRILLING LOG

| PROJECT <i>FusRAP/302</i> |       | INSPECTOR <i>Chris Lake</i>                        |                                        | WELL NUMBER <i>Sup 5725</i>       |                            |
|---------------------------|-------|----------------------------------------------------|----------------------------------------|-----------------------------------|----------------------------|
| BLK. NO.                  | DEPTH | DESCRIPTION OF MATERIALS                           | FIELD SCREENING RESULTS                | CERTIFIED SAMPLE OR CORE DEN. NO. | ANALYTICAL SAMPLE NO.      |
| <i>San</i>                | 1     | SAND, GRAVEL, BROWN, HARD, LOOSE Dry Fill. Angular | 5900 counts NCI ppm 7100 count NCI PFO | 0.5 ton/6"                        | 5472 5725 1456             |
|                           | 2     |                                                    |                                        |                                   | 5472 5767 1459 N/A         |
|                           | 3     |                                                    |                                        |                                   |                            |
|                           |       | TID 2.0 ft                                         | 1505                                   | MS                                | 10/30 b                    |
|                           |       |                                                    |                                        |                                   | Draw: 2 (philips)          |
|                           |       |                                                    |                                        |                                   | 5900 counts NCI Background |
|                           |       |                                                    |                                        |                                   | Bentomab Chr for Bt        |

2.0 / 2.0 Recovery

5900  
28  
x 59  
4  
19

*FusRAP/302*

*Sup 5725*

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                         |  | DISTRICT <u>SL: Louis</u>                                                  |  | HOLE NUMBER <u>5726</u>                        |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------|--|----------------------------------------------------------------------------|--|------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                         |  | 2. DRILL SUBCONTRACTOR<br><u>Geotechnology</u>                             |  | SHEET <u>1</u> OF <u>2</u>                     |  |
| 3. PROJECT<br><u>FUSRAP/SWS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                         |  | 4. LOCATION<br><u>PHILLIPS Service</u>                                     |  |                                                |  |
| 5. NAME OF DRILLER<br><u>JIM McDONALD</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                         |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                    |  |                                                |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Handrow 5" auger</u><br><u>SPR.T SPOOR</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                         |  | 8. HOLE LOCATION                                                           |  |                                                |  |
| 9. SURFACE ELEVATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                         |  | 10. DATE STARTED<br><u>10/12/00</u>                                        |  |                                                |  |
| 11. DATE COMPLETED<br><u>10/12/00</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                         |  | 12. OVERBURDEN THICKNESS                                                   |  |                                                |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                         |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                |  |
| 15. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                         |  | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                |  |
| 18. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | DISTURBED               |  | UNDISTURBED                                                                |  | 19. TOTAL NUMBER OF CORE BOXES                 |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | VOC                     |  | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAD</u>                  |  |
| 21. TOTAL CORE RECOVERY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | 22. DISPOSITION OF HOLE |  | 23. SIGNATURE OF INSPECTOR<br><u>[Signature]</u>                           |  | 24. SIGNATURE OF DRILLER<br><u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                         |  | SCALE:                                                                     |  |                                                |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; left: 10%; font-size: 2em;">PHILLIPS</div> <div style="position: absolute; top: 10%; left: 35%; font-size: 2em;">Service</div> <div style="position: absolute; top: 10%; left: 55%; font-size: 2em;">D. 10/12/00</div> <div style="position: absolute; top: 40%; left: 40%; font-size: 2em;">OK by Rock Parker</div> <div style="position: absolute; top: 60%; left: 15%; font-size: 2em;">McKinley</div> <div style="position: absolute; top: 60%; left: 35%; font-size: 2em;">Bridge</div> <div style="position: absolute; top: 60%; left: 55%; font-size: 2em;">2.0 ft</div> <div style="position: absolute; top: 70%; left: 50%; font-size: 2em;">New</div> <div style="position: absolute; top: 70%; left: 60%; font-size: 2em;">5726</div> <div style="position: absolute; top: 70%; left: 65%; font-size: 2em;">OLD</div> <div style="position: absolute; top: 70%; left: 68%; font-size: 2em;">5726</div> <div style="position: absolute; top: 80%; left: 15%; font-size: 2em;">PHILLIPS</div> <div style="position: absolute; top: 80%; left: 35%; font-size: 2em;">Service</div> <div style="position: absolute; top: 80%; left: 55%; font-size: 2em;">D. 10/12/00</div> </div> |  |                         |  |                                                                            |  |                                                |  |

PROJECT FUSRAP/SWS  
FORM 5056-R, AUG 94

HOLE NO. SLD 5726

(Prepared by CECW-EG1)

# HTRW DRILLING LOG

| PROJECT    |       | INSPECTOR                                                |                                              | WELL NUMBER                   |                                                                                                                                                      |
|------------|-------|----------------------------------------------------------|----------------------------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| FUSRAP/SWS |       | Chris Lock                                               |                                              | 340 5726                      |                                                                                                                                                      |
| DATE       | DEPTH | DESCRIPTION OF MATERIALS                                 | FIELD SCREENING RESULTS                      | SCREEN SAMPLE OR CORE BOX NO. | ANALYTICAL SAMPLE NO.                                                                                                                                |
| SW         | 1     | SAND, GRAVEL<br>Brown, HARD, LOOSE,<br>Dry, Full Angular | 5400<br>COUNTS<br>NET<br>DIO<br>PIPM<br>PTIP | 0.5<br>ton/ton                | 5400<br>5726<br>0923                                                                                                                                 |
|            | 2     |                                                          | 5300<br>COUNTS<br>NET                        |                               | 5400<br>5766<br>0926                                                                                                                                 |
|            | 3     | TID 20"                                                  |                                              | 0935 hrs                      | 10/12/00                                                                                                                                             |
|            |       |                                                          |                                              |                               | Drum!<br>(Phillips)<br>5300 counts<br>NET Background<br>Bentham & Co<br>for BF<br>TID Due<br>to RefusN<br>with permission<br>from CSAC<br>Robin Park |

1.5  
2 = Recovery

5300

FUSRAP/SWS

340 5726



| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                               |  | DISTRICT <u>St. Louis</u>                                  |  | HOLE NUMBER<br><u>540 5727</u> |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------|--|------------------------------------------------------------|--|--------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                               |  | 2. DRILL SUBCONTRACTOR<br><u>Geo Technology</u>            |  | SHEET <u>1</u> OF <u>2</u>     |  |
| 3. PROJECT<br><u>FUSRAP/SUDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                               |  | 4. LOCATION<br><u>PHILLIPS Services</u>                    |  |                                |  |
| 5. NAME OF DRILLER<br><u>JIM McDONALD</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                               |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CM-E 53</u>   |  |                                |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | <u>Hollow Stem Auger</u><br><u>SPR. SPOON</u> |  | 8. HOLE LOCATION                                           |  |                                |  |
| 9. SURFACE ELEVATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                               |  | 10. DATE STARTED<br><u>10/12/00</u>                        |  |                                |  |
| 11. DATE COMPLETED<br><u>10/12/00</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                               |  | 12. OVERBURDEN THICKNESS                                   |  |                                |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                               |  | 14. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>            |  |                                |  |
| 15. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                               |  | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u> |  |                                |  |
| 17. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | 18. DISTURBED                                 |  | 19. UNDISTURBED                                            |  | 20. TOTAL NUMBER OF CORE BOXES |  |
| <u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | <u>0</u>                                      |  | <u>0</u>                                                   |  | <u>0</u>                       |  |
| 21. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | VOC                                           |  | METALS                                                     |  | OTHER (SPECIFY)<br><u>RAD</u>  |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | BACKFILLED                                    |  | MONITORING WELL                                            |  | OTHER (SPECIFY)                |  |
| <u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | <u>0</u>                                      |  | <u>0</u>                                                   |  | <u>0</u>                       |  |
| 23. SIGNATURE OF INSPECTOR<br><u>[Signature]</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                               |  | 24. TOTAL CORE RECOVERY                                    |  |                                |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                               |  | SCALE:                                                     |  |                                |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; left: 10%; font-size: 2em;">MCKINTOSH</div> <div style="position: absolute; top: 10%; left: 45%; font-size: 2em;">BRIDGE</div> <div style="position: absolute; top: 40%; left: 15%; font-size: 2em;">D.H. PHILLIPS</div> <div style="position: absolute; top: 40%; left: 40%; font-size: 2em;">Services</div> <div style="position: absolute; top: 40%; left: 55%; font-size: 2em;">properties</div> <div style="position: absolute; top: 65%; left: 25%; font-size: 2em;">RR</div> <div style="position: absolute; top: 70%; left: 40%; font-size: 2em;">YARD</div> <div style="position: absolute; top: 75%; left: 25%; font-size: 2em;">540</div> <div style="position: absolute; top: 78%; left: 25%; font-size: 2em;">5727</div> <div style="position: absolute; top: 85%; left: 65%; font-size: 2em;">5727</div> <div style="position: absolute; top: 85%; left: 70%; font-size: 2em;">540</div> <div style="position: absolute; top: 85%; left: 75%; font-size: 2em;">5727</div> <div style="position: absolute; top: 10%; right: 10%; text-align: center;"> <div style="font-size: 3em;">↑</div> <div style="font-size: 2em;">N</div> </div> </div> |  |                                               |  |                                                            |  |                                |  |
| PROJECT <u>FUSRAP/SUDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                               |  | HOLE NO. <u>540 5727</u>                                   |  |                                |  |

# HTRW DRILLING LOG

| PROJECT    |       | INSPECTOR                           |                                     | WELL NUMBER                      |                       | SHEET                                                                                                                                                                    |  |
|------------|-------|-------------------------------------|-------------------------------------|----------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| FUSRAP/SWS |       | Chris Locke                         |                                     | 5727                             |                       | 2 of 2                                                                                                                                                                   |  |
| DATE       | DEPTH | DESCRIPTION OF MATERIALS            | FIELD SCREENING RESULTS             | CERTIFIED SAMPLE OR CORE BOX NO. | ANALYTICAL SAMPLE NO. | REMARKS                                                                                                                                                                  |  |
| SW         | 1     | SAND, GRAVEL, HARD, Dense, Dry F.S. | 5200 counts NAT PPM 177 4800 counts | 0.5 ton/gr                       | 540 5727 1024         | 1.0<br>2.0 Recovery                                                                                                                                                      |  |
|            |       | Brick                               |                                     |                                  | 540 5769 1026         |                                                                                                                                                                          |  |
|            | 2     | T.D.                                | 16"                                 | 1035                             | his                   | 10/12/00<br>Draw: 1<br>(ph. 2.2.05)<br>5200 counts<br>NAT Background<br>Bentomk chip<br>for B.F.<br><br>T.D. Due<br>to Refusal<br>with USACE<br>Approval.<br>Robin Parks |  |
| 3          |       |                                     |                                     |                                  |                       |                                                                                                                                                                          |  |

5200

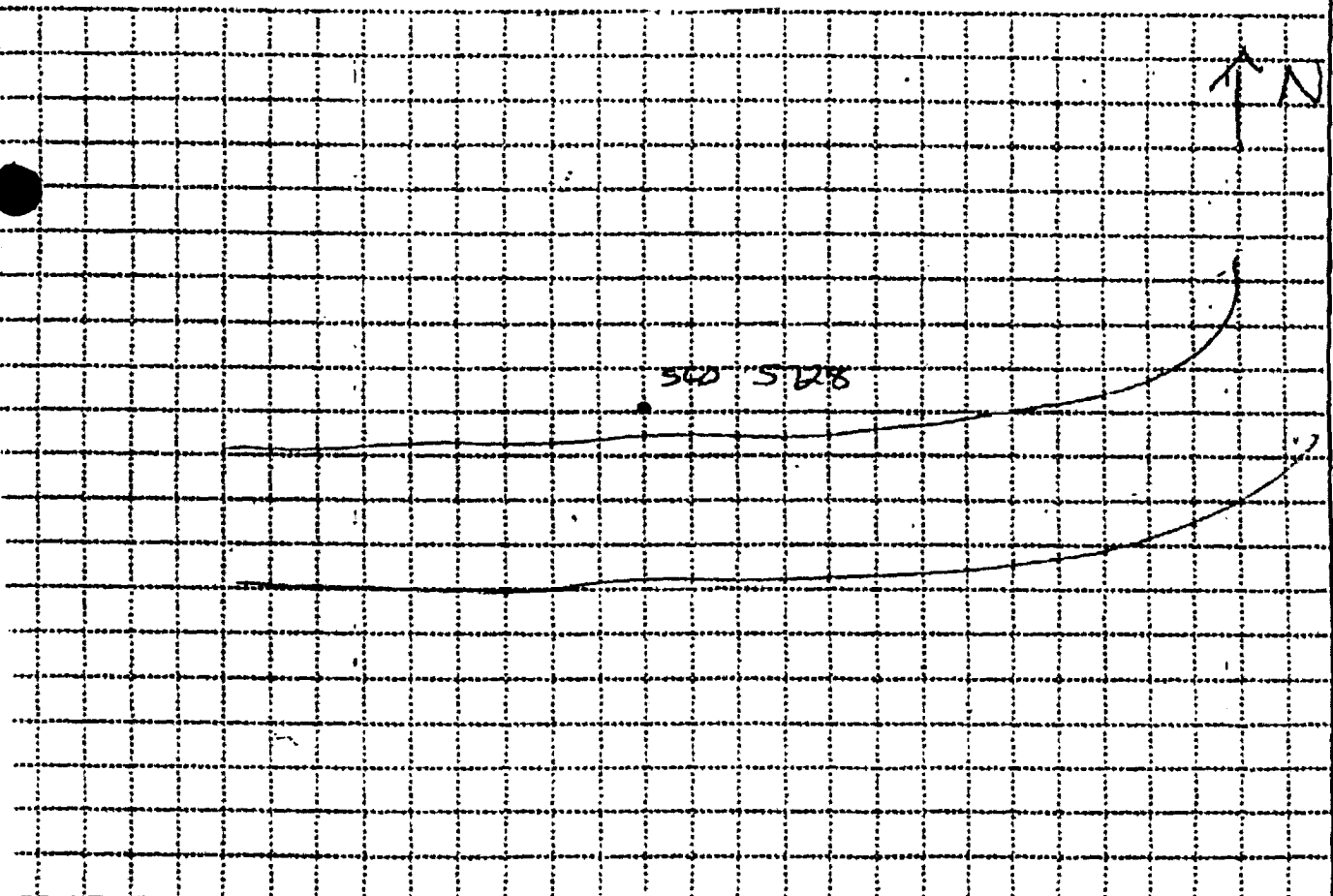
FUSRAP/SWS

5727

|                                                                                                          |            |                                                                            |                                |                                                 |                 |
|----------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------|--------------------------------|-------------------------------------------------|-----------------|
| <b>HTRW DRILLING LOG</b>                                                                                 |            | DISTRICT <u>St. Louis</u>                                                  |                                | HOLE NUMBER<br><u>528</u>                       |                 |
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                 |            | 2. DRILL SUBCONTRACTOR<br><u>Geotechnics</u>                               |                                | SHEET <u>1</u> OF <u>2</u>                      |                 |
| 3. PROJECT<br><u>FSRAP/SRS</u>                                                                           |            | 4. LOCATION<br><u>Ph. Lipz Series</u>                                      |                                |                                                 |                 |
| 5. NAME OF DRILLER<br><u>JIM McDONALD</u>                                                                |            | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                    |                                |                                                 |                 |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Stem Auger</u><br><u>37.5cm 400mm</u> |            | 8. HOLE LOCATION<br><u>Class 2</u>                                         |                                |                                                 |                 |
|                                                                                                          |            | 9. SURFACE ELEVATION                                                       |                                |                                                 |                 |
|                                                                                                          |            | 10. DATE STARTED<br><u>10/17/00</u>                                        |                                | 11. DATE COMPLETED<br><u>10/17/00</u>           |                 |
| 12. OVERBURDEN THICKNESS                                                                                 |            | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |                                |                                                 |                 |
| 13. DEPTH DRILLED INTO ROCK                                                                              |            | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |                                |                                                 |                 |
| 14. TOTAL DEPTH OF HOLE                                                                                  |            | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |                                |                                                 |                 |
| 16. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                     | DISTURBED  | UNDISTURBED                                                                | 17. TOTAL NUMBER OF CORE BOXES |                                                 |                 |
| 18. SAMPLES FOR CHEMICAL ANALYSIS                                                                        | VOC        | METALS                                                                     | OTHER (SPECIFY)<br><u>RAD</u>  | OTHER (SPECIFY)                                 | OTHER (SPECIFY) |
| 19. DISPOSITION OF HOLE                                                                                  | BACKFILLED | MONITORING WELL                                                            | OTHER (SPECIFY)                | 20. SIGNATURE OF INSPECTOR<br><u>Mike Tello</u> |                 |
| 21. TOTAL CORE RECOVERY                                                                                  |            |                                                                            |                                |                                                 |                 |

LOCATION SKETCH/COMMENTS

SCALE:



PROJECT FSRAP/SRS

HOLE NO.  
528

FORM 5056-R, AUG 94

(Proponent: CECW-EG)

# HTRW DRILLING LOG

| PROJECT    |       | INSPECTOR                                                  |                                      | WELL NUMBER     |                                                                                                                    |
|------------|-------|------------------------------------------------------------|--------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------|
| FUSAP/SUDS |       | Chris Locke                                                |                                      | SUD 5728        |                                                                                                                    |
| LOC        | DEPTH | DESCRIPTION OF MATERIALS                                   | FIELD OBSERVATIONS                   | DETAILED SAMPLE | ANALYTICAL                                                                                                         |
| NO.        | FT    | NO.                                                        | RESULTS                              | OR CORE NO. NO. | SAMPLE NO.                                                                                                         |
| CL         | 1     | Silty - LOAM clay<br>Brown - HARD Dense<br>wet (from RAIN) | 6800<br>COUNTS<br>NAT<br>0.5<br>1000 | 0.5<br>ton/6"   | 5601<br>0837<br>5728                                                                                               |
| SW         | 2     | SAND, BRICK, HARD, WOOD<br>wet from RAIN                   | 5700<br>COUNTS<br>NAT<br>0.0<br>100  |                 | 5600<br>5770<br>0891                                                                                               |
|            | 3     | T.D                                                        | 2.0 ft                               | 0850            | AS 10/17/6<br>Dumai<br>(phosph)<br>6500 counts<br>NAT Background<br>Bentonite cap<br>for BF<br>Split / Amp<br>Bore |

650

FUSAP/SUD

SUD 5728

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                               |  |            |                                                | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER <u>2nd 529</u>                       |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|------------------------------------------------|----------------------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>Corporation</u>                                                                                                                                                                                                                                                                                                                                           |  |            | 2. DRILL SUBCONTRACTOR<br><u>Geotechnology</u> |                                                                            |  | SHEET <u>1</u> OF <u>2</u>                       |  |
| 3. PROJECT<br><u>FUSRAP/SWS</u>                                                                                                                                                                                                                                                                                                                                                 |  |            |                                                | 4. LOCATION<br><u>Ph. Lips Service</u>                                     |  |                                                  |  |
| 5. NAME OF DRILLER<br><u>Jim McDonald</u>                                                                                                                                                                                                                                                                                                                                       |  |            |                                                | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                    |  |                                                  |  |
| 7. SIZE AND TYPE OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Stem Auger</u><br><u>Split Spoon</u>                                                                                                                                                                                                                                                                           |  |            |                                                | 8. HOLE LOCATION<br><u>CLASS 2</u>                                         |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                 |  |            |                                                | 9. SURFACE ELEVATION                                                       |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                 |  |            |                                                | 10. DATE STARTED<br><u>10/19/00</u>                                        |  | 11. DATE COMPLETED<br><u>10/19/00</u>            |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                        |  |            |                                                | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                     |  |            |                                                | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                  |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                         |  |            |                                                | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                  |  |
| 16. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                            |  | DISTURBED  |                                                | UNDISTURBED                                                                |  | 18. TOTAL NUMBER OF CORE SECTIONS                |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                               |  | VOC        |                                                | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAO</u>                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                 |  |            |                                                |                                                                            |  | 21. TOTAL CORE RECOVERY                          |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                         |  | BACKFILLED |                                                | MONITORING WELL                                                            |  | 23. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
|                                                                                                                                                                                                                                                                                                                                                                                 |  |            |                                                |                                                                            |  |                                                  |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                        |  |            |                                                | SCALE:                                                                     |  |                                                  |  |
| <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 60%;"> <p><u>Ph. Lips Service property</u></p> <p><u>SUP</u><br/><u>529</u></p> <p><u>SUP</u><br/><u>6224</u></p> <p><u>RAIL ROAD TRACK</u></p> <p><u>MALICKANDI PROPERTY</u></p> </div> <div style="width: 35%; text-align: center;"> <p><u>↑ N</u></p> </div> </div> |  |            |                                                |                                                                            |  |                                                  |  |
| PROJECT <u>FUSRAP/SWS</u>                                                                                                                                                                                                                                                                                                                                                       |  |            |                                                | HOLE NO. <u>2nd 529</u>                                                    |  |                                                  |  |



# HTRW DRILLING LOG

PROJECT FUSAP/SMS

INSPECTOR Chris Lock

WELL NUMBER 570 5729

DATE 2 MONTH 2

| CLT. NO. | DEPTH | DESCRIPTION OF MATERIALS                                        | FIELD SCREENING RESULTS     | SECTION SAMPLE OR CORE DEN. NO. | ANALYTICAL SAMPLE NO. | REMARKS                                                                                           |
|----------|-------|-----------------------------------------------------------------|-----------------------------|---------------------------------|-----------------------|---------------------------------------------------------------------------------------------------|
| CL       | 1     | 5 sh LEAN clay with wood, gravel Brown, HARD, loose, Dry, Flt   | 7100 counts NUT 0.6 ppm PIP | 0.5                             | 5401 5729 1054        | 1.5/20 Recovery                                                                                   |
| CL       | 2     | 5 sh - lean clay with gravel Brown-green, HARD, loose, Dry, Flt | 7200 counts NUT ppm         |                                 | 5402 5729 1054        |                                                                                                   |
|          | 3     | TID                                                             | 2.0 ft                      | 1105                            | his                   | 10/19/00<br>Draw: 1<br>(ph. 2. p. 3)<br>6300 counts<br>NUT BACKGROUND<br>Bentonite chip<br>for BF |

6300

PROJECT FUSAP/SMS

WELL NO. 570 5729

| HTRW DRILLING LOG                                                                                   |  |            |  | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER<br><u>520 5730</u>                   |  |
|-----------------------------------------------------------------------------------------------------|--|------------|--|----------------------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                            |  |            |  | 2. DRILL SUBCONTRACTOR<br><u>Geotechnology</u>                             |  | SHEET <u>1</u> OF <u>2</u>                       |  |
| 3. PROJECT<br><u>FUSRAP/SWS</u>                                                                     |  |            |  | 4. LOCATION<br><u>Ph. R. P. Service</u>                                    |  |                                                  |  |
| 5. NAME OF DRILLER<br><u>JM McDONALD</u>                                                            |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 35</u>                    |  |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Below 3" Auger</u><br><u>Spit Spoon</u> |  |            |  | 8. HOLE LOCATION                                                           |  |                                                  |  |
|                                                                                                     |  |            |  | 9. SURFACE ELEVATION                                                       |  |                                                  |  |
|                                                                                                     |  |            |  | 10. DATE STARTED<br><u>10/16/00</u>                                        |  | 11. DATE COMPLETED<br><u>10/16/00</u>            |  |
| 12. OVERBURDEN THICKNESS                                                                            |  |            |  | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                         |  |            |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                  |  |
| 14. TOTAL DEPTH OF HOLE                                                                             |  |            |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                  |  |
| 18. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                |  | DISTURBED  |  | UNDISTURBED                                                                |  | 19. TOTAL NUMBER OF CORE BOXES                   |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                   |  | VOC        |  | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAP</u>                    |  |
|                                                                                                     |  |            |  |                                                                            |  | 21. TOTAL CORE RECOVERY                          |  |
| 22. DISPOSITION OF HOLE                                                                             |  | BACKFILLED |  | MONITORING WELL                                                            |  | 23. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                            |  |            |  |                                                                            |  |                                                  |  |
| SCALE:                                                                                              |  |            |  |                                                                            |  |                                                  |  |
|                                                                                                     |  |            |  |                                                                            |  |                                                  |  |
| PROJECT <u>FUSRAP/SWS</u>                                                                           |  |            |  | HOLE NO. <u>520 5730</u>                                                   |  |                                                  |  |

# HTRW DRILLING LOG

| PROJECT    |       | INSPECTOR                                                         |                                     | SHEET                      |                                                                                        |
|------------|-------|-------------------------------------------------------------------|-------------------------------------|----------------------------|----------------------------------------------------------------------------------------|
| FUSAP/SUDS |       | Chris Lock                                                        |                                     | 340 5730                   |                                                                                        |
| CLAY       | DEPTH | DESCRIPTION OF MATERIALS                                          | FIELD SCREENING RESULTS             | GEOTECH SAMPLE ON CORE NO. | ANALYTICAL SAMPLE NO.                                                                  |
| GL         |       | Silty - Low clay<br>Brown - HARD, DENSE,<br>Dry                   | 5100<br>COUNTS<br>NAT               |                            | 5100<br>5730<br>0949                                                                   |
| GW         | 1     | SLAY, cinder.<br>Black, HARD, <del>Loose</del> Loose<br>Dry, F.U. | PPH<br>PTD<br>4900<br>COUNTS<br>NAT | 0.5<br>ton/6 <sup>2</sup>  |                                                                                        |
|            |       | Brick                                                             | PPH<br>PTD                          |                            | 5100<br>5732<br>0952                                                                   |
| cat        | 2     | Fat clay, BROWN, HARD                                             |                                     | 15 ton/6 <sup>2</sup>      |                                                                                        |
|            | 3     | TID                                                               | 2.0 6 <sup>+</sup>                  | 1000                       | his<br>10/16/00<br>Drum 1<br>(PH. 0949)<br>4800 counts<br>NAT<br>Bentomb Uir<br>for BF |

FUSAP/SUDS

340 5730

| HTRW DRILLING LOG                                     |  |                                                |                                           | DISTRICT <u>SL Louis</u>                                                |  | HOLE NUMBER <u>SD 5731</u>                    |  |
|-------------------------------------------------------|--|------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------|--|-----------------------------------------------|--|
| 1. COMPANY NAME <u>IT Corporation</u>                 |  |                                                | 2. DRILL SUBCONTRACTOR <u>Geotechnics</u> |                                                                         |  | SHEET <u>1</u> OF <u>2</u>                    |  |
| 3. PROJECT <u>FUSRAP/SDS</u>                          |  |                                                |                                           | 4. LOCATION <u>Ph. 2p3 Service</u>                                      |  |                                               |  |
| 5. NAME OF DRILLER <u>Jim McDonald</u>                |  |                                                |                                           | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>CME 55</u>                    |  |                                               |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT |  | <u>Hollow Stem Auger</u><br><u>Split Spoon</u> |                                           | 8. HOLE LOCATION <u>Class 2</u>                                         |  |                                               |  |
|                                                       |  |                                                |                                           | 9. SURFACE ELEVATION                                                    |  |                                               |  |
|                                                       |  |                                                |                                           | 10. DATE STARTED <u>10/17/02</u>                                        |  | 11. DATE COMPLETED <u>10/17/02</u>            |  |
| 12. OVERBURDEN THICKNESS                              |  |                                                |                                           | 13. DEPTH GROUNDWATER ENCOUNTERED <u>N/A</u>                            |  |                                               |  |
| 13. DEPTH DRILLED INTO ROCK                           |  |                                                |                                           | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u> |  |                                               |  |
| 14. TOTAL DEPTH OF HOLE                               |  |                                                |                                           | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u>                 |  |                                               |  |
| 18. GEOTECHNICAL SAMPLES                              |  | DISTURBED                                      |                                           | UNDISTURBED                                                             |  | 19. TOTAL NUMBER OF CORE BOXES                |  |
| <u>0</u>                                              |  |                                                |                                           |                                                                         |  |                                               |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                     |  | VOC                                            |                                           | METALS                                                                  |  | OTHER (SPECIFY)                               |  |
|                                                       |  |                                                |                                           |                                                                         |  | <u>Rad</u>                                    |  |
| 22. DISPOSITION OF HOLE                               |  | BACKFILLED                                     |                                           | MONITORING WELL                                                         |  | OTHER (SPECIFY)                               |  |
|                                                       |  |                                                |                                           |                                                                         |  | 23. SIGNATURE OF INSPECTOR <u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                              |  |                                                |                                           |                                                                         |  |                                               |  |
| SCALE:                                                |  |                                                |                                           |                                                                         |  |                                               |  |
|                                                       |  |                                                |                                           |                                                                         |  |                                               |  |
| PROJECT <u>FUSRAP/SDS</u>                             |  |                                                |                                           |                                                                         |  | HOLE NO. <u>SD 5731</u>                       |  |

# HTRW DRILLING LOG

| PROJECT <i>FUSRAP/SWDS</i> |                 |                                                                        |                                     | INSPECTOR <i>Chris Loda</i>            |                                 | WELL NUMBER <i>340 5731</i>                                                      |  |
|----------------------------|-----------------|------------------------------------------------------------------------|-------------------------------------|----------------------------------------|---------------------------------|----------------------------------------------------------------------------------|--|
| SHEET <i>2</i> OF <i>2</i> |                 |                                                                        |                                     | SHEET <i>2</i> OF <i>2</i>             |                                 | WELL <i>2</i>                                                                    |  |
| DEPTH<br>FEET              | DEPTH<br>METERS | DESCRIPTION OF MATERIALS<br>(M)                                        | FIELD SCREENING<br>RESULTS<br>(M)   | GRAPEED SAMPLE<br>OR CORE DEPTH<br>(M) | ANALYTICAL<br>SAMPLE NO.<br>(M) | REMARKS<br>(M)                                                                   |  |
| CL                         | 1               | Silty LEAN clay<br>with sand<br>Brown, HARD, loose,<br>wet (from Rain) | 6200<br>counts<br>NAT<br>0.3<br>PSP | 0.5<br>m/ft                            | 540<br>5731<br>1110hrs          | 2.0<br>2.0 Recovery                                                              |  |
| GW                         | 2               | GRAVEL, SAND<br>Brown, HARD, loose<br>(wet from Rain)                  | 5900<br>counts<br>NAT<br>0.3<br>PSP |                                        | 540<br>5731<br>1113hrs          |                                                                                  |  |
|                            | 3               | TID 20 ft                                                              |                                     | 1120 hrs                               | 10/17/00                        | Drain: 1<br>(phlopes)<br>5800 counts<br>NAT Background<br>Benzene Chp<br>for BF. |  |

PROJECT *FUSRAP/SWDS*

WELL NO. *340 5731*



| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |            |  | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER<br><u>SD 5732</u>                    |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|----------------------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            |  | 2. DRILL SUBCONTRACTOR<br><u>Geotechnology</u>                             |  | SHEET <u>1</u> OF <u>2</u>                       |  |
| 3. PROJECT<br><u>FUSRAP/SD</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |            |  | 4. LOCATION<br><u>Ph. L. ps Service</u>                                    |  |                                                  |  |
| 5. NAME OF DRILLER<br><u>Jim McDONALD</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                    |  |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Stem Auger</u><br><u>Split TASON</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |            |  | 8. HOLE LOCATION<br><u>Class 2</u>                                         |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |  | 9. SURFACE ELEVATION                                                       |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |  | 10. DATE STARTED<br><u>10/17/00</u>                                        |  | 11. DATE COMPLETED<br><u>10/17/00</u>            |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            |  | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |            |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                  |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |            |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                  |  |
| 18. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | DISTURBED  |  | UNDISTURBED                                                                |  | 19. TOTAL NUMBER OF CORE BOXES                   |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | VOC        |  | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAO</u>                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |  |                                                                            |  | 21. TOTAL CORE RECOVERY                          |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | BACKFILLED |  | MONITORING WELL                                                            |  | 23. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            |  | SCALE:                                                                     |  |                                                  |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; left: 10%; font-size: 2em;">McKinley</div> <div style="position: absolute; top: 10%; left: 40%; font-size: 2em;">Br. Dyke</div> <div style="position: absolute; top: 10%; right: 10%; font-size: 3em;">↑ N</div> <div style="position: absolute; top: 40%; left: 30%; font-size: 1.5em;">SD<br/>5730</div> <div style="position: absolute; top: 40%; left: 65%; font-size: 1.5em;">SD<br/>5732</div> <div style="position: absolute; top: 70%; left: 10%; font-size: 2em;">ROAD</div> </div> |  |            |  |                                                                            |  |                                                  |  |
| PROJECT <u>FUSRAP/SD</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            |  |                                                                            |  | HOLE NO.<br><u>SD 5732</u>                       |  |

FORM 5056-R, AUG 94

(Proponent: CECW-EG)

# HTRW DRILLING LOG

| PROJECT    |                                                               | INSPECTOR                           |                                      | HOLE NUMBER               |                                                                                      |
|------------|---------------------------------------------------------------|-------------------------------------|--------------------------------------|---------------------------|--------------------------------------------------------------------------------------|
| FUSRAP/SWS |                                                               | Chris Lock                          |                                      | SLD 5732                  |                                                                                      |
| SHEET      |                                                               | SHEET                               |                                      | SHEET                     |                                                                                      |
| 2          |                                                               | 2                                   |                                      | 2                         |                                                                                      |
| DEPTH      | DESCRIPTION OF MATERIALS                                      | FIELD SCREENING RESULTS             | DETERMINED SAMPLE OR CORE IDENT. NO. | ANALYTICAL SAMPLE NO.     | REMARKS                                                                              |
| 1          | CONCRETE (COVER)                                              | 4500<br>COUNTS<br>NET<br>0.0<br>PSA |                                      | 5400<br>5732 CORR<br>1310 | N/A<br>2.0 RECOVER                                                                   |
| 2          | S. Lty- LOAN CLAY<br>Brown, HARD, LOOSE,<br>MOIST (from RAIN) | 4900<br>COUNTS<br>NET<br>0.0<br>PSA | 1.5<br>ton/ft <sup>2</sup>           | 5400<br>5732<br>1532      | 2.0<br>2.0 RECOVERY                                                                  |
| 3          | SLAG, BRICK, HARD<br>LOOSE, MOIST (from<br>RAIN)              | 5600<br>COUNTS<br>NET<br>0.0<br>PSA |                                      | 5400<br>5732<br>1335      |                                                                                      |
| 4          | T.D 3.0 ft                                                    |                                     | 1340 hrs                             | 10/17/00                  | 1<br>Dm: 1<br>(ph. 2.0m)<br>5200 counts<br>NET Background<br>Bentrich chip<br>for BF |

PROJECT FUSRAP/SWS

SLD 5732

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                         |  |  | DISTRICT <u>St. Louis</u>                                               |  |                 | HOLE NUMBER <u>SLD 5733</u>        |                                               |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|-------------------------------------------------------------------------|--|-----------------|------------------------------------|-----------------------------------------------|--|
| 1. COMPANY NAME <u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                     |  |  | 2. DRILL SUBCONTRACTOR <u>Geotechnology</u>                             |  |                 | SHEET <u>1</u> OF <u>2</u>         |                                               |  |
| 3. PROJECT <u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                             |  |  | 4. LOCATION <u>Philips Services</u>                                     |  |                 |                                    |                                               |  |
| 5. NAME OF DRILLER <u>JIM MCCONARD</u>                                                                                                                                                                                                                                                                                                                                                                    |  |  | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>CME 55</u>                    |  |                 |                                    |                                               |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>Howell 3 1/2" Aggr Split Spool</u>                                                                                                                                                                                                                                                                                                               |  |  | 8. HOLE LOCATION                                                        |  |                 |                                    |                                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                           |  |  | 9. SURFACE ELEVATION                                                    |  |                 |                                    |                                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                           |  |  | 10. DATE STARTED <u>10/11/00</u>                                        |  |                 | 11. DATE COMPLETED <u>10/11/00</u> |                                               |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                  |  |  | 13. DEPTH GROUNDWATER ENCOUNTERED <u>N/A</u>                            |  |                 |                                    |                                               |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                               |  |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u> |  |                 |                                    |                                               |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                   |  |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u>                 |  |                 |                                    |                                               |  |
| 18. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                  |  |  | DISTURBED                                                               |  | UNDISTURBED     |                                    | 19. TOTAL NUMBER OF CORE BOXES                |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                         |  |  | VOC                                                                     |  | METALS          |                                    | OTHER (SPECIFY) <u>RAO</u>                    |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                   |  |  | BACKFILLED                                                              |  | MONITORING WELL |                                    | 23. SIGNATURE OF INSPECTOR <u>[Signature]</u> |  |
| 21. TOTAL CORE RECOVERY                                                                                                                                                                                                                                                                                                                                                                                   |  |  |                                                                         |  |                 |                                    |                                               |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                  |  |  | SCALE:                                                                  |  |                 |                                    |                                               |  |
| <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 60%;"> <p><u>McKinley</u> <u>Bridge</u></p> <p style="text-align: center;">EDT 6028 6029</p> <p style="text-align: right;">SLD 5733</p> <p style="text-align: center;"><u>Philips Services Corporation</u></p> </div> <div style="width: 35%; text-align: right;"> <p><u>N</u></p> </div> </div> |  |  |                                                                         |  |                 |                                    |                                               |  |
| PROJECT <u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                |  |  | HOLE NO. <u>SLD 5733</u>                                                |  |                 |                                    |                                               |  |

| HTRW DRILLING LOG         |                                                  |                                     |                                    |                          |                                                                                                                                                        |  |
|---------------------------|--------------------------------------------------|-------------------------------------|------------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| PROJECT <i>FUSRAP/SWS</i> |                                                  |                                     | INSPECTOR <i>Chris Lucha</i>       |                          | HOLE NUMBER <i>SUP 5733</i>                                                                                                                            |  |
|                           |                                                  |                                     |                                    |                          | SHEET <i>2</i> OF <i>2</i>                                                                                                                             |  |
| DEPTH<br>(ft)             | DESCRIPTION OF MATERIALS<br>(ft)                 | FIELD SCREENING<br>RESULTS          | CERTIFICATION<br>OF CORE DRILL NO. | ANALYTICAL<br>SAMPLE NO. | REMARKS                                                                                                                                                |  |
| GW<br>1                   | SAND, GRAVEL<br>Brown, Heavy Dense,<br>Dry, F.R. | 4800<br>counts<br>N-T<br>0.5<br>PTD | 0.15<br>for 1/16"                  | 7601<br>5737<br>1406     | 1.0<br>2.0 Roswary                                                                                                                                     |  |
|                           |                                                  | 5300<br>counts<br>N-T<br>0.5<br>PTD |                                    | 5775<br>1408             |                                                                                                                                                        |  |
| 2                         | T.D                                              | 18"                                 | 1415 h                             |                          | 10/11/67                                                                                                                                               |  |
| 3                         |                                                  |                                     |                                    |                          | Draw: 1 (photos)<br>4800 counts<br>with Background<br>Bentonite Check<br>for BF.<br><br>T.D Due<br>to Refusal<br>with USACE<br>Approval<br>Robin Parks |  |

PROJECT *FUSRAP/SWS*

SUP *5733*

| HTRW DRILLING LOG                                                                                   |  | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER<br><u>SD 5734</u>                    |  |
|-----------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                            |  | 2. DRILL SUBCONTRACTOR<br><u>Geotechnology</u>                             |  | 3. SHEET<br><u>1</u> OF <u>2</u>                 |  |
| 3. PROJECT<br><u>FUSRAP/SD</u>                                                                      |  | 4. LOCATION<br><u>PH. J. P. Service</u>                                    |  |                                                  |  |
| 5. NAME OF DRILLER<br><u>JIM McDONALD</u>                                                           |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                    |  |                                                  |  |
| 7. SIZE AND TYPE OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Stem Auger</u><br><u>SPR. 3000</u> |  | 8. HOLE LOCATION                                                           |  |                                                  |  |
|                                                                                                     |  | 9. SURFACE ELEVATION                                                       |  |                                                  |  |
|                                                                                                     |  | 10. DATE STARTED<br><u>10/16/00</u>                                        |  | 11. DATE COMPLETED<br><u>10/16/00</u>            |  |
| 12. OVERBURDEN THICKNESS                                                                            |  | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                         |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                  |  |
| 14. TOTAL DEPTH OF HOLE                                                                             |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                  |  |
| 16. GEOTECHNICAL SAMPLES                                                                            |  | DISTURBED                                                                  |  | UNDISTURBED                                      |  |
| 17. SAMPLES FOR CHEMICAL ANALYSIS                                                                   |  | VOC                                                                        |  | METALS                                           |  |
|                                                                                                     |  |                                                                            |  | OTHER (SPECIFY)<br><u>RAO</u>                    |  |
| 18. DISPOSITION OF HOLE                                                                             |  | BACKFILLED                                                                 |  | MONITORING WELL                                  |  |
|                                                                                                     |  |                                                                            |  | OTHER (SPECIFY)                                  |  |
|                                                                                                     |  |                                                                            |  | 19. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
| 20. TOTAL NUMBER OF CORE BOXES<br><u>2</u>                                                          |  | 21. TOTAL CORE RECOVERY                                                    |  |                                                  |  |
| LOCATION SKETCH/COMMENTS                                                                            |  |                                                                            |  |                                                  |  |
| SCALE:                                                                                              |  |                                                                            |  |                                                  |  |
|                                                                                                     |  |                                                                            |  |                                                  |  |
| PROJECT <u>FUSRAP/SD</u>                                                                            |  |                                                                            |  |                                                  |  |
| HOLE NO. <u>SD 5734</u>                                                                             |  |                                                                            |  |                                                  |  |

FORM 5056-R, AUG 94

(Proponent: CECW-EG)



# HTRW DRILLING LOG

| PROJECT                  |  | INSPECTOR               |  | HOLE NUMBER           |  |
|--------------------------|--|-------------------------|--|-----------------------|--|
| FUSRAP/SWS               |  | Chris Locke             |  | SWS 5734              |  |
| ELEV. (ft)               |  | DEPTH (ft)              |  | SHEET                 |  |
|                          |  |                         |  | 2                     |  |
| DESCRIPTION OF MATERIALS |  | FIELD SCREENING RESULTS |  | ANALYTICAL SAMPLE NO. |  |
| S. 2 ft - LOAN CLAY      |  | 5500                    |  | SWS 5734              |  |
| Brown, HARD, Dense       |  | Counts                  |  | 1115                  |  |
| Dry, Flap                |  | NET                     |  | 2.0 Recover           |  |
|                          |  | PPM                     |  |                       |  |
|                          |  | PID                     |  |                       |  |
|                          |  | GAC                     |  |                       |  |
|                          |  | Comb                    |  | 5400                  |  |
|                          |  | NET                     |  | 876                   |  |
|                          |  | PPM                     |  | 1117                  |  |
| 2                        |  | TID 2.0 ft              |  | 1125 hrs              |  |
| 3                        |  |                         |  | 10/16/00              |  |
|                          |  |                         |  | Dum: 1                |  |
|                          |  |                         |  | (phd, ps)             |  |
|                          |  |                         |  | 6600 counts           |  |
|                          |  |                         |  | NET BACKGROUND        |  |
|                          |  |                         |  | Bentonite chip        |  |
|                          |  |                         |  | for BF                |  |

FUSRAP/SWS

SWS 5734

660

| HTRW DRILLING LOG                                                                                        |  |            |                                                | DISTRICT <u>SL: Low</u>                                                    |  | HOLE NUMBER<br><u>520 5735</u>                   |  |
|----------------------------------------------------------------------------------------------------------|--|------------|------------------------------------------------|----------------------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT CORPORATION</u>                                                                 |  |            | 2. DRILL SUBCONTRACTOR<br><u>Geotechnology</u> |                                                                            |  | SHEET <u>1</u> OF <u>2</u>                       |  |
| 3. PROJECT<br><u>FUSRAP/5405</u>                                                                         |  |            |                                                | 4. LOCATION<br><u>Ph. R.R. ps Services</u>                                 |  |                                                  |  |
| 5. NAME OF DRILLER<br><u>JIM McQuinn</u>                                                                 |  |            |                                                | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                    |  |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Stem Auger</u><br><u>500 ft Spout</u> |  |            |                                                | 8. HOLE LOCATION                                                           |  |                                                  |  |
|                                                                                                          |  |            |                                                | 9. SURFACE ELEVATION                                                       |  |                                                  |  |
|                                                                                                          |  |            |                                                | 10. DATE STARTED<br><u>10/12/00</u>                                        |  | 11. DATE COMPLETED<br><u>10/12/00</u>            |  |
| 12. OVERBURDEN THICKNESS                                                                                 |  |            |                                                | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                              |  |            |                                                | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                  |  |
| 14. TOTAL DEPTH OF HOLE                                                                                  |  |            |                                                | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                  |  |
| 18. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                     |  | DISTURBED  |                                                | UNDISTURBED                                                                |  | 19. TOTAL NUMBER OF CORE BOXES                   |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                        |  | VOC        |                                                | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAD</u>                    |  |
|                                                                                                          |  |            |                                                |                                                                            |  | 21. TOTAL CORE RECOVERY                          |  |
| 22. DISPOSITION OF HOLE                                                                                  |  | BACKFILLED |                                                | MONITORING WELL                                                            |  | 23. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                 |  |            |                                                | SCALE:                                                                     |  |                                                  |  |
|                                                                                                          |  |            |                                                |                                                                            |  |                                                  |  |
| PROJECT <u>FUSRAP/5405</u>                                                                               |  |            |                                                |                                                                            |  | HOLE NO. <u>520 5735</u>                         |  |

FORM 5056-R, AUG 94

(Proponent: CECW-EG)

# HTRW DRILLING LOG

| PROJECT    |  | INSPECTOR                                  |  | HOLE NUMBER                                                           |  |
|------------|--|--------------------------------------------|--|-----------------------------------------------------------------------|--|
| FUSRAP/sup |  | Chris Locke                                |  | 54P 5735                                                              |  |
| DEPTH      |  | DESCRIPTION OF MATERIALS                   |  | ANALYTICAL SAMPLE NO.                                                 |  |
| SW         |  | SAND, GRAVEL, BROWN HARD LOOSE Dry, FINE   |  | 5400 5735 1053                                                        |  |
| 1          |  | SAND, GRAVEL, BLACK HARD, LOOSE, Dry, FINE |  | 5400 5777 1053                                                        |  |
| 2          |  | T.D                                        |  | 2.0 ft 1100 hrs 10/12/6                                               |  |
| 3          |  |                                            |  | Drum: 1 (p.h. 1.12) 5700 counts N.E. Background Bentonite chip for BF |  |

5700

FUSRAP/sup

54P 5735

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                        |  |  | DISTRICT <u>St. Louis</u>                                                  |  |                 | HOLE NUMBER<br><u>SD 5736</u> |                                                  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------------------------------------------------------|--|-----------------|-------------------------------|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                 |  |  | 2. DRILL SUBCONTRACTOR<br><u>Geotechnics</u>                               |  |                 | SHEET <u>1</u> OF <u>2</u>    |                                                  |  |
| 3. PROJECT<br><u>FUSRAP/SD</u>                                                                                                                                                                                                                                                           |  |  | 4. LOCATION<br><u>Phlips Service</u>                                       |  |                 |                               |                                                  |  |
| 5. NAME OF DRILLER<br><u>JIM McDONNELL</u>                                                                                                                                                                                                                                               |  |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                    |  |                 |                               |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Stem Auger</u><br><u>50241 50221</u>                                                                                                                                                                                  |  |  | 8. HOLE LOCATION<br><u>Class 2</u>                                         |  |                 |                               |                                                  |  |
| 9. SURFACE ELEVATION                                                                                                                                                                                                                                                                     |  |  | 10. DATE STARTED<br><u>10/17/00</u>                                        |  |                 |                               |                                                  |  |
| 11. DATE COMPLETED<br><u>10/17/00</u>                                                                                                                                                                                                                                                    |  |  | 12. OVERBURDEN THICKNESS                                                   |  |                 |                               |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                              |  |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                 |                               |                                                  |  |
| 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                                                                                                                                                                                                                               |  |  | 16. TOTAL NUMBER OF CORE BOXES                                             |  |                 |                               |                                                  |  |
| 17. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                     |  |  | DISTURBED                                                                  |  | UNDISTURBED     |                               |                                                  |  |
| 18. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                        |  |  | VOC                                                                        |  | METALS          |                               | OTHER (SPECIFY)<br><u>RAO</u>                    |  |
| 19. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                  |  |  | BACKFILLED                                                                 |  | MONITORING WELL |                               | 20. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
| 21. TOTAL CORE RECOVERY                                                                                                                                                                                                                                                                  |  |  | 22. LOCATION SKETCH/COMMENTS                                               |  |                 |                               |                                                  |  |
| <div style="display: flex; justify-content: space-between;"> <span>LOCATION SKETCH/COMMENTS</span> <span>SCALE:</span> </div> <div style="text-align: center; margin-top: 20px;"> <p><u>Mr. Kinley</u>      <u>Br. Day</u></p> <p><u>M. Allicker D-1</u>      <u>Proposed</u></p> </div> |  |  |                                                                            |  |                 |                               |                                                  |  |

LECT

HOLE NO.  
SD 5736

ORM 5058-R, AUG 94

(Proponent: CECW-EG)

# HTRW DRILLING LOG

PROJECT *FUSRAP/SUP*

INSPECTOR *Chris Locke*

WELL NUMBER *540 5736*  
SHEET *2* OF *2*

| BLK. No. | DEPTH (ft) | DESCRIPTION OF MATERIALS                                              | FIELD SCREENING RESULTS                                             | REF TECH SAMPLE OF CORE (SEE NO.) | ANALYTICAL SAMPLE NO. | REMARKS                                                                                                                                                         |
|----------|------------|-----------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CL       | 1          | S. & M. LEAN CLAY<br>BROWN-HARD, LOOSE<br>LOOSE, DRIFT (from<br>RAIN) | 5300<br>COUNTS<br>NET<br>PPM<br>4900<br>COUNTS<br>NET<br>PPM<br>PSP | 0.5<br>tons                       | 540<br>5736<br>1445   | 0.8 / 2.5 Recovery                                                                                                                                              |
|          | 2          |                                                                       |                                                                     |                                   | 5400<br>5776          |                                                                                                                                                                 |
|          | 3          | T.D.                                                                  | 19"                                                                 | 1500                              | h/s                   | 10/17/00<br>Drum: 1<br>(p.h. dip)<br>5700 counts<br>NET Background<br>Bentone chr<br>for BF<br>T.D. Due to<br>Refusal with<br>O.K. from<br>USACE<br>Robin Parks |

(5100)

PROJECT *FUSRAP/SUP*

WELL NO. *540 5736*



| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                               |  | DISTRICT <u>SL. LOUIS</u>                                                  |  | HOLE NUMBER<br><u>SLD 5737</u> |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------|--|----------------------------------------------------------------------------|--|--------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | 2. DRILL SUBCONTRACTOR<br><u>Geoteknology</u> |  |                                                                            |  | SHEET <u>1</u> OF <u>2</u>     |  |
| 3. PROJECT<br><u>FUSRAP/SLD</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                               |  | 4. LOCATION<br><u>Ph. Lb. ps Services</u>                                  |  |                                |  |
| 5. NAME OF DRILLER<br><u>JIM McDONNELL</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                               |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                    |  |                                |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Split Spoon</u><br><u>Split Spoon</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | 8. HOLE LOCATION                              |  |                                                                            |  |                                |  |
| 9. SURFACE ELEVATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                               |  |                                                                            |  |                                |  |
| 10. DATE STARTED<br><u>10/1/00</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                               |  | 11. DATE COMPLETED<br><u>10/1/00</u>                                       |  |                                |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                               |  | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                               |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                               |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                |  |
| 16. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | DISTURBED                                     |  | UNDISTURBED                                                                |  | 18. TOTAL NUMBER OF CORE BOXES |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | VOC                                           |  | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAO</u>  |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | BACKFILLED                                    |  | MONITORING WELL                                                            |  | 21. TOTAL CORE RECOVERY        |  |
| 23. SIGNATURE OF INSPECTOR<br><u>[Signature]</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                               |  | 24. SIGNATURE OF DRILLER<br><u>[Signature]</u>                             |  |                                |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                               |  |                                                                            |  |                                |  |
| SCALE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                               |  |                                                                            |  |                                |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; left: 10%; font-size: 2em;">Dh. Lb. ps</div> <div style="position: absolute; top: 10%; left: 35%; font-size: 2em;">Services</div> <div style="position: absolute; top: 10%; left: 55%; font-size: 2em;">Property</div> <div style="position: absolute; top: 10%; left: 80%; font-size: 2em;">↑ N</div> <div style="position: absolute; top: 70%; left: 10%; font-size: 1.5em;">RAIL ROAD</div> <div style="position: absolute; top: 70%; left: 35%; font-size: 1.5em;">N/A</div> <div style="position: absolute; top: 80%; left: 20%; font-size: 1.5em;">6231</div> <div style="position: absolute; top: 80%; left: 35%; font-size: 1.5em;">SLD 5737</div> </div> |  |                                               |  |                                                                            |  |                                |  |
| PROJECT <u>FUSRAP/SLD</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                               |  |                                                                            |  | HOLE NO. <u>SLD 5737</u>       |  |

## HTRW DRILLING LOG

5737

2 2

PROJECT FUSPAD/SW2

INSPECTION *Chris Lock*

| LOC. NO. | DEPTH (ft) | DESCRIPTION OF MATERIALS                            | FIELD SCREENING RESULTS   | DETECT. SAMPLE OR CORE NO. | ANALYTICAL SAMPLE NO.  | REMARKS                                                                  |
|----------|------------|-----------------------------------------------------|---------------------------|----------------------------|------------------------|--------------------------------------------------------------------------|
| SW       | 1          | Silt, sand, gravel, brown, black, hard, loose, dry. | 6400 counts net<br>ppm Pb |                            | 5401<br>5787<br>1526hr | 115<br>2.0 Recovery                                                      |
| CH       | 2          | Fine clay, brown, green, hard, dry, dry.            | 6800 counts net<br>ppm Pb | 5.0 transfer               | 5400<br>5779<br>1526hr |                                                                          |
|          | 3          | T.P.                                                | 2.0                       | 64                         | 1335                   | hrs 10/11/01<br>Drum: 1 (ph. 2hr)<br>5300 counts net<br>Bentback for BF. |

1994

FusPAX/kps

54

540 5737

5302

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  | DISTRICT <u>SL. Louis</u>                                                  |  | HOLE NUMBER<br><u>SLD 5738</u>                   |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|----------------------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  | 2. DRILL SUBCONTRACTOR<br><u>Geotechnology</u>                             |  | SHEET <u>1</u> OF <u>2</u>                       |  |
| 3. PROJECT<br><u>FUSRAP/SLOs</u>                                                                                                                                                                                                                                                                                                                                                                                                         |  |            |  | 4. LOCATION<br><u>Phillips Service</u>                                     |  |                                                  |  |
| 5. NAME OF DRILLER<br><u>JIM McDONALD</u>                                                                                                                                                                                                                                                                                                                                                                                                |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                    |  |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Stem Auger</u><br><u>SPR. 3 SPDR</u>                                                                                                                                                                                                                                                                                                                                  |  |            |  | 8. HOLE LOCATION                                                           |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |            |  | 9. SURFACE ELEVATION                                                       |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |            |  | 10. DATE STARTED<br><u>10/12/00</u>                                        |  | 11. DATE COMPLETED<br><u>10/12/00</u>            |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                  |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                  |  |            |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                  |  |
| 16. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                     |  | DISTURBED  |  | UNDISTURBED                                                                |  | 17. TOTAL NUMBER OF CORE BOXES                   |  |
| 18. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                        |  | VOC        |  | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAO</u>                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |            |  |                                                                            |  | 20. TOTAL CORE RECOVERY                          |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                  |  | BACKFILLED |  | MONITORING WELL                                                            |  | 21. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  | SCALE:                                                                     |  |                                                  |  |
| <p>The sketch is drawn on a grid. At the bottom, a horizontal line is labeled 'ROAD'. Above it, a curved line represents a road or path. Further up, a point is labeled 'SLD 5738'. To the left of this point, the text 'Ph. Rops Service property' is written. Above the road, the word 'Bridge' is written. In the top left corner, 'McKwly' is written. In the top right corner, a north arrow points upwards and is labeled 'N'.</p> |  |            |  |                                                                            |  |                                                  |  |
| PROJECT <u>FUSRAP/SLOs</u>                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |  | HOLE NO. <u>SLD 5738</u>                                                   |  |                                                  |  |

# HTRW DRILLING LOG

PROJECT *FUSRAP/SWS*

INSPECTOR *Chris Lock*

HOLE NUMBER *540 5738*

SHEET *2* OF *2*

| CLAY<br>ID | DEPTH<br>FT | DESCRIPTION OF MATERIALS<br>NO.                                                | FIELD SCREENING<br>DETAILS<br>FT                                                     | CORRECTION SAMPLE<br>ON CORE BOX NO.<br>FT | ANALYTICAL<br>SAMPLE NO.<br>FT            | REMARKS                                                                                                                                         |
|------------|-------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>SW</i>  | <i>1</i>    | <i>SAND GRAVEL</i><br><i>Brown, HARD, loose,</i><br><i>Dry, FILL</i>           | <i>5300</i><br><i>COUNTS</i><br><i>NEI</i><br><i>0.5</i><br><i>PDM</i><br><i>PSP</i> | <i>0.5</i><br><i>ton/ft²</i>               | <i>5400</i><br><i>5738</i><br><i>1329</i> | <i>1.8</i><br><i>2.0 Recovery</i>                                                                                                               |
| <i>GW</i>  | <i>2</i>    | <i>Slag, Cinders</i><br><i>Black, HARD, loose</i><br><i>Dry, FILL, Angular</i> | <i>6200</i><br><i>COUNTS</i><br><i>NEI</i><br><i>0.5</i><br><i>PDM</i>               |                                            | <i>5400</i><br><i>5750</i><br><i>1332</i> |                                                                                                                                                 |
|            | <i>3</i>    |                                                                                | <i>T.D 2.0 ft</i>                                                                    | <i>1335</i>                                | <i>hrs</i>                                | <i>10/12/01</i><br><i>Drill: 1</i><br><i>(ph. logs)</i><br><i>5700 counts</i><br><i>NEI Background</i><br><i>Bentont chip</i><br><i>for BF.</i> |

670

*5700*

PROJECT *FUSRAP/SWS*

HOLE NO. *540 5738*

| HTRW DRILLING LOG                                                                                       |  |            |                                              | DISTRICT <u>52. LO-13</u>                                                 |  | SLD 5739                                         |  |
|---------------------------------------------------------------------------------------------------------|--|------------|----------------------------------------------|---------------------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                |  |            | 2. DRILL SUBCONTRACTOR<br><u>Geotechnics</u> |                                                                           |  | SHEET <u>1</u> OF <u>1</u>                       |  |
| 3. PROJECT<br><u>FUSRAP/SWS</u>                                                                         |  |            |                                              | 4. LOCATION<br><u>Ph. 2. ps Service</u>                                   |  |                                                  |  |
| 5. NAME OF DRILLER<br><u>Jim McDermid</u>                                                               |  |            |                                              | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 33</u>                   |  |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Stem Auger</u><br><u>302.4 SPOON</u> |  |            |                                              | 8. HOLE LOCATION<br><u>CLASS 2</u>                                        |  |                                                  |  |
|                                                                                                         |  |            |                                              | 9. SURFACE ELEVATION                                                      |  |                                                  |  |
|                                                                                                         |  |            |                                              | 10. DATE STARTED<br><u>10/19/00</u>                                       |  | 11. DATE COMPLETED<br><u>10/19/01</u>            |  |
| 12. OVERBURDEN THICKNESS                                                                                |  |            |                                              | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>NR</u>                            |  |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                             |  |            |                                              | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>NR</u> |  |                                                  |  |
| 14. TOTAL DEPTH OF HOLE                                                                                 |  |            |                                              | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>NR</u>                 |  |                                                  |  |
| 16. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                    |  | DISTURBED  |                                              | UNDISTURBED                                                               |  | 18. TOTAL NUMBER OF CORE BOXES                   |  |
| 19. SAMPLES FOR CHEMICAL ANALYSIS                                                                       |  | VOC        |                                              | METALS                                                                    |  | OTHER (SPECIFY)<br><u>RAD</u>                    |  |
|                                                                                                         |  |            |                                              |                                                                           |  | 21. TOTAL CORE RECOVERY                          |  |
| 22. DEPOSITION OF HOLE                                                                                  |  | BAG FILLED |                                              | MONITORING WELL                                                           |  | 23. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                |  |            |                                              |                                                                           |  |                                                  |  |
| SCALE:                                                                                                  |  |            |                                              |                                                                           |  |                                                  |  |
|                                                                                                         |  |            |                                              |                                                                           |  |                                                  |  |
| PROJECT <u>FUSRAP/SWS</u>                                                                               |  |            |                                              |                                                                           |  | SLD 5739                                         |  |

FORM 5056-R, AUG 94

(Proponent: CECW-EG)



# HTRW DRILLING LOG

| PROJECT    |                                                                  | INSPECTOR                                  |                                 | HOLE NUMBER           |                                                                                                |
|------------|------------------------------------------------------------------|--------------------------------------------|---------------------------------|-----------------------|------------------------------------------------------------------------------------------------|
| FUSRAP/SND |                                                                  | Chris Lock                                 |                                 | SND 5739              |                                                                                                |
| DEPTH      | DESCRIPTION OF MATERIALS                                         | FIELD COUNTING RESULTS                     | GEOTECH SAMPLE OR CORE DEN. NO. | ANALYTICAL SAMPLE NO. | REMARKS                                                                                        |
| 1          | GRAVEL, SAND<br>TAN-BROWN HARD,<br>loose, dry, fine<br>Angular   | 5700<br>counts<br>NET<br>0.0<br>PDM<br>PDM |                                 | 5700<br>5739<br>0941  | 2.0<br>2.0 Recovery                                                                            |
| 2          | Silty LOAM CLAY<br>with gravel<br>Brown. HARD, LOOSE<br>Dry fine | 6400<br>counts<br>NET<br>0.0<br>PDM        |                                 | 5700<br>0946          | 5700                                                                                           |
| 3          | TID                                                              | 2.0 ft                                     | 0955                            | 113                   | 10/19/60<br>Draw: 1<br>(sh. exps)<br>5700 counts<br>NET Background<br>Bentonite chip<br>for BE |

5700

FUSRAP/SND

SND 5739

| HTRW DRILLING LOG                                                                                                                                                               |  |            |                                                 | DISTRICT <u>SL</u> <u>LOUIS</u>                            |  | HOLE NUMBER<br><u>340 5740</u>                   |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|-------------------------------------------------|------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT CORPORATION</u>                                                                                                                                        |  |            | 2. DRILL SUBCONTRACTOR<br><u>Geo Technology</u> |                                                            |  | SHEET <u>1</u> OF <u>2</u>                       |  |
| 3. PROJECT<br><u>FUSRAP/SUPs</u>                                                                                                                                                |  |            |                                                 | 4. LOCATION<br><u>Ph. 11. ps</u> <u>SA/VIA</u>             |  |                                                  |  |
| 5. NAME OF DRILLER<br><u>JIM McDONALD</u>                                                                                                                                       |  |            |                                                 | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME</u>       |  |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Stem Auger</u><br><u>Sp. 1 SPOON</u>                                                                         |  |            |                                                 | 8. HOLE LOCATION                                           |  |                                                  |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                        |  |            |                                                 | 10. DATE STARTED<br><u>10/11/00</u>                        |  |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                     |  |            |                                                 | 11. DATE COMPLETED<br><u>10/11/00</u>                      |  |                                                  |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                         |  |            |                                                 | 15. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>            |  |                                                  |  |
| 16. DATE STARTED                                                                                                                                                                |  |            |                                                 | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u> |  |                                                  |  |
| 18. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                            |  | DISTURBED  |                                                 | UNDISTURBED                                                |  | 19. TOTAL NUMBER OF CORE BOXES                   |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                               |  | VOC        |                                                 | METALS                                                     |  | OTHER (SPECIFY)<br><u>RAD</u>                    |  |
| 21. DISPOSITION OF HOLE                                                                                                                                                         |  | BACKFILLED |                                                 | MONITORING WELL                                            |  | 22. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                        |  |            |                                                 | SCALE:                                                     |  |                                                  |  |
| <div style="display: flex; justify-content: space-between; margin-bottom: 10px;"> <span><u>Ph. 11. ps</u></span> <span><u>SA/VIA</u></span> <span><u>Prop. 11</u></span> </div> |  |            |                                                 |                                                            |  |                                                  |  |
| PROJECT<br><u>FUSRAP/SUPs</u>                                                                                                                                                   |  |            |                                                 | HOLE NO.<br><u>340 5740</u>                                |  |                                                  |  |

# HTRW DRILLING LOG

| PROJECT    |   | INSPECTOR                                               |  | HOLE NUMBER                                                                                   |  |
|------------|---|---------------------------------------------------------|--|-----------------------------------------------------------------------------------------------|--|
| FUSAP/SOPS |   | Mits Lock                                               |  | 5740                                                                                          |  |
| DEPTH      |   | DESCRIPTION OF MATERIALS                                |  | FIELD COUNTING RESULTS                                                                        |  |
| IN         |   | NO.                                                     |  | NO.                                                                                           |  |
| 6W         | 1 | SLAG, CINDERS<br>Black, HARD, Base<br>Dry, Fls, Angular |  | 8300<br>Counts<br>ppm<br>PPO                                                                  |  |
|            | 2 | FAT CLAY<br>Green, HARD, Dense<br>Dry, Fls,             |  | 8100<br>Counts<br>N/S                                                                         |  |
| CH         | 2 |                                                         |  | >510<br>ton/642                                                                               |  |
|            | 3 | T.D 20 ft                                               |  | 110 MS                                                                                        |  |
|            |   |                                                         |  | 10/1100 Drum: 1<br>(17h. 22. ps)<br>7100 counts Net<br>Background<br>Bartonek Chgs.<br>for BF |  |

FUSAP/SOPS

5740

|                                                                                               |  |                                                |  |                                        |  |
|-----------------------------------------------------------------------------------------------|--|------------------------------------------------|--|----------------------------------------|--|
| HTRW DRILLING LOG                                                                             |  | NAME <i>SL Louis</i>                           |  | HOLE NUMBER <i>540 5741</i>            |  |
| 1. COMPANY NAME<br><i>IT Corporation</i>                                                      |  | 2. WELL IDENTIFICATION<br><i>Geotechnology</i> |  | 3. DATE<br><i>1-2</i>                  |  |
| 4. PROJECT<br><i>FUSRAP/5405</i>                                                              |  | 5. LOGGERS<br><i>Phil Phillips Services</i>    |  |                                        |  |
| 6. NAME OF WELL<br><i>JIM McDONALD</i>                                                        |  | 7. MEASURED DEPTH OF WELL<br><i>CME 55</i>     |  |                                        |  |
| 8. WELL LOG TYPE OF WELL AND COMPLETION INFORMATION<br><i>Hollow Stem Auger<br/>SPR. 300W</i> |  | 9. WELL LOCATION                               |  |                                        |  |
|                                                                                               |  | 10. SURFACE ELEVATION                          |  |                                        |  |
|                                                                                               |  | 11. DATE OF LOG<br><i>10/10/00</i>             |  | 12. WELL COMPLETION<br><i>10/10/00</i> |  |
| 13. WELL LOGGING METHOD                                                                       |  | 14. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 15. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 16. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 17. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 18. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 19. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 20. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 21. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 22. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 23. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 24. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 25. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 26. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 27. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 28. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 29. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 30. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 31. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 32. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 33. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 34. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 35. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 36. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 37. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 38. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 39. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 40. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 41. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 42. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 43. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 44. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 45. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 46. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 47. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 48. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 49. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 50. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 51. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 52. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 53. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 54. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 55. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 56. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 57. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 58. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 59. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 60. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 61. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 62. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 63. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 64. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 65. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 66. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 67. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 68. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 69. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 70. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 71. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 72. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 73. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 74. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 75. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 76. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 77. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 78. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 79. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 80. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 81. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 82. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 83. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 84. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 85. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 86. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 87. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 88. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 89. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 90. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 91. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 92. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 93. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 94. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 95. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 96. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 97. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 98. WELL LOGGING METHOD<br><i>NTA</i>          |  |                                        |  |
| 99. WELL LOGGING METHOD<br><i>NTA</i>                                                         |  | 100. WELL LOGGING METHOD<br><i>NTA</i>         |  |                                        |  |

LOCATION SKETCH COMMENTS

SCALE

LOG BY *FUSRAP/5405*

FORM 802-2, AUG 94

HOLE NO. *540 5741*

PROJECT CCM-001

# HTRW DRILLING LOG

| FUSRAP/SD |                  | Chris Loch                                                  |                                     | 5741               |                                                                                                 |
|-----------|------------------|-------------------------------------------------------------|-------------------------------------|--------------------|-------------------------------------------------------------------------------------------------|
| DEPTH     | DIAMETER OF HOLE | DESCRIPTION OF MATERIAL                                     | FIELD MEASUREMENTS                  | ANALYTICAL DATA    | REMARKS                                                                                         |
| GW        |                  | GRAVEL, BROWN, HARD<br>Loose, Dry, FRI                      | 4000<br>COUNTS<br>NET<br>PPM<br>PTD | 0.5<br>ton/6'2     | 5741<br>1345                                                                                    |
| GW        | 1                | GRAVEL, SAND, CLAY<br>BROWN-BLACK, HARD<br>Loose, Dry, FRI. | 5400<br>COUNTS<br>NET<br>PPM<br>PTD |                    | 1.8/20 Recovery                                                                                 |
|           | 2                |                                                             |                                     | 4<br>5783<br>1348A |                                                                                                 |
|           | 3                | TID.                                                        | 2.0                                 | 6 + 1400           | has 10/100.<br>Draw: 4 (Phillips)<br>5700 counts<br>NET BACKGROUND<br>Beitornik chips<br>for BF |

5700  
5400



| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |            |                                               | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER<br><u>SD 5742</u>                    |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|-----------------------------------------------|----------------------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |            | 2. DRILL SUBCONTRACTOR<br><u>Geoteknology</u> |                                                                            |  | SHEET <u>1</u> OF <u>2</u>                       |  |
| 3. PROJECT<br><u>FUSRAP/SDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |                                               | 4. LOCATION<br><u>Phillips Service</u>                                     |  |                                                  |  |
| 5. NAME OF DRILLER<br><u>Jim McDonald</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |            |                                               | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 35</u>                    |  |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Horizontal Stem Auger</u><br><u>SOB. + Spoon</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |                                               | 8. HOLE LOCATION                                                           |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |                                               | 9. SURFACE ELEVATION                                                       |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |                                               | 10. DATE STARTED<br><u>10/11/05</u>                                        |  | 11. DATE COMPLETED<br><u>10/11/05</u>            |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |            |                                               | 15. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |                                               | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                  |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            |                                               | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                  |  |
| 18. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | DISTURBED  |                                               | UNDISTURBED                                                                |  | 19. TOTAL NUMBER OF CORE BOXES                   |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | VOC        |                                               | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAA</u>                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |                                               |                                                                            |  | 21. TOTAL CORE RECOVERY                          |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | BACKFILLED |                                               | MONITORING WELL                                                            |  | 23. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |                                               |                                                                            |  |                                                  |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |            |                                               |                                                                            |  |                                                  |  |
| SCALE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |            |                                               |                                                                            |  |                                                  |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; left: 10%; font-size: 2em;">SD</div> <div style="position: absolute; top: 15%; left: 10%; font-size: 2em;">5742</div> <div style="position: absolute; top: 40%; left: 10%; font-size: 2em;">RAA</div> <div style="position: absolute; top: 40%; left: 30%; font-size: 2em;">ROAD</div> <div style="position: absolute; top: 60%; left: 40%; font-size: 2em;">YARD</div> <div style="position: absolute; top: 70%; left: 60%; font-size: 2em;">SD</div> <div style="position: absolute; top: 75%; left: 60%; font-size: 2em;">5742</div> <div style="position: absolute; top: 85%; left: 10%; font-size: 2em;">McDonald</div> <div style="position: absolute; top: 85%; left: 40%; font-size: 2em;">properly</div> <div style="position: absolute; top: 10%; left: 15%; font-size: 1.5em;">Phillips</div> <div style="position: absolute; top: 10%; left: 35%; font-size: 1.5em;">Service</div> <div style="position: absolute; top: 10%; left: 55%; font-size: 1.5em;">properly</div> <div style="position: absolute; top: 10%; right: 10%; font-size: 2em;">N</div> </div> |  |            |                                               |                                                                            |  |                                                  |  |
| PROJECT <u>FUSRAP/SDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |            |                                               |                                                                            |  | HOLE NO.<br><u>SD 5742</u>                       |  |

# HTRW DRILLING LOG

| PROJECT    |  | INSPECTOR                                               |  | WELL NUMBER                               |  |
|------------|--|---------------------------------------------------------|--|-------------------------------------------|--|
| FUSPAP/sds |  | Chris Lack                                              |  | SD 5742                                   |  |
| DEPTH      |  | DESCRIPTION OF MATERIALS                                |  | FIELD SCREENING RESULTS                   |  |
| FT         |  | NO.                                                     |  | ON CORE SON NO.                           |  |
| IN         |  | ANALYTICAL SAMPLE NO.                                   |  | REMARKS                                   |  |
| SW         |  | SANDY - GRAVEL,<br>BROWN - HARD, LOOSE<br>Dg, FILL,     |  | 7800<br>COUNTS<br>NET<br>OS<br>PPM<br>PIP |  |
| 1          |  |                                                         |  | 05<br>ton/ft <sup>2</sup>                 |  |
| GW         |  | SLAY, E-DATE<br>BLACK, HARD, LOOSE,<br>Dg, FILL, ANYMAN |  | 7900<br>COUNTS<br>NET<br>OS<br>PPM<br>PIP |  |
| 2          |  |                                                         |  | 1025                                      |  |
| 3          |  | TID 20 ft                                               |  | 115                                       |  |
|            |  |                                                         |  | 10/11/00                                  |  |
|            |  |                                                         |  | Dunn: 1 (Ph. 01)                          |  |
|            |  |                                                         |  | 7700 counts                               |  |
|            |  |                                                         |  | NET BACKGRO                               |  |
|            |  |                                                         |  | Bentonite chip                            |  |
|            |  |                                                         |  | for BF.                                   |  |

7700

FUSPAP/sds

SD 5742

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                              |  |            |  | DISTRICT <u>SL</u> <u>Louis</u>                                            |  | HOLE NUMBER<br><u>SUP 5743</u>                 |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|----------------------------------------------------------------------------|--|------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                       |  |            |  | 2. DRILL SUBCONTRACTOR<br><u>Geotechnology</u>                             |  | SHEET <u>1</u> OF <u>2</u>                     |  |
| 3. PROJECT<br><u>FUSRAP/SUP</u>                                                                                                                                                                                                                                                                                                                                                                |  |            |  | 4. LOCATION<br><u>PH. 20. ps Service</u>                                   |  |                                                |  |
| 5. NAME OF DRILLER<br><u>JIM McDOWD</u>                                                                                                                                                                                                                                                                                                                                                        |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                    |  |                                                |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow 3/4" Auger</u><br><u>SPR. SPOON</u>                                                                                                                                                                                                                                                                                         |  |            |  | 8. HOLE LOCATION                                                           |  |                                                |  |
|                                                                                                                                                                                                                                                                                                                                                                                                |  |            |  | 9. SURFACE ELEVATION                                                       |  |                                                |  |
|                                                                                                                                                                                                                                                                                                                                                                                                |  |            |  | 10. DATE STARTED<br><u>10/11/00</u>                                        |  | 11. DATE COMPLETED<br><u>10/11/00</u>          |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                       |  |            |  | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                                |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                    |  |            |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                        |  |            |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                |  |
| 16. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                           |  | DISTURBED  |  | UNDISTURBED                                                                |  | 18. TOTAL NUMBER OF CORE BOXES                 |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                              |  | VOC        |  | METALS                                                                     |  | OTHER (SPECIFY)<br><u>ROD</u>                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                |  |            |  |                                                                            |  | 21. TOTAL CORE RECOVERY                        |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                        |  | BACKFILLED |  | MONITORING WELL                                                            |  | 23. SIGNATURE OF INSPECTOR<br><u>John Fink</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                       |  |            |  |                                                                            |  |                                                |  |
| SCALE:                                                                                                                                                                                                                                                                                                                                                                                         |  |            |  |                                                                            |  |                                                |  |
|                                                                                                                                                                                                                                                                                                                                                                                                |  |            |  |                                                                            |  |                                                |  |
| <div style="display: flex; justify-content: space-between;"> <span><u>PAVE ROAD</u></span> <span><u>PH. 20. ps Service properly</u></span> </div> <div style="display: flex; justify-content: center; margin-top: 50px;"> <u>SUP 5743</u> </div> <div style="display: flex; justify-content: space-between; margin-top: 50px;"> <span><u>McDOWD</u></span> <span><u>properly</u></span> </div> |  |            |  |                                                                            |  |                                                |  |
| PROJECT <u>FUSRAP/SUP</u>                                                                                                                                                                                                                                                                                                                                                                      |  |            |  |                                                                            |  | HOLE NO.<br><u>SUP 5743</u>                    |  |

# 

| HTRW DRILLING LOG |       |                                                                               |                            |                               |                       | HOLE NUMBER                |
|-------------------|-------|-------------------------------------------------------------------------------|----------------------------|-------------------------------|-----------------------|----------------------------|
| PROJECT           |       |                                                                               | INSPECTOR                  |                               |                       | 540 5743                   |
| FUSRAP/S405       |       |                                                                               | Chris Lala                 |                               |                       | WELL                       |
|                   |       |                                                                               |                            |                               |                       | 2                          |
| DATE              | DEPTH | DESCRIPTION OF MATERIALS                                                      | FIELD SCREENING RESULTS    | DEPTEN SAMPLE OR CORE BOX NO. | ANALYTICAL SAMPLE NO. | REMARKS                    |
| SW                |       | SAND, GRAVEL, BROWN, HARD LOOSE Dry Fill, Angular                             | 7800 counts NaI 0.0 ppm Pb |                               | 5400 5743 0913        | 1.8 / 2.0 Recovery         |
| SW                | 1     | SAND, GRAVEL, with silty - LOAN clay BROWN - GRAY, HARD DENSE, Dry Limestone. | 8700 counts NaI 0.0 PPA    |                               | 5400 5785 0915        |                            |
| -                 | 2     |                                                                               |                            |                               |                       |                            |
|                   | 3     |                                                                               |                            |                               |                       |                            |
|                   |       | TID.                                                                          | 2.0                        | 0920 hrs                      |                       | 10/11/00                   |
|                   |       |                                                                               |                            |                               |                       | Drain: 2                   |
|                   |       |                                                                               |                            |                               |                       | 7100 counts NaI Background |
|                   |       |                                                                               |                            |                               |                       | Bentonite chip for BF      |

7100

7000

PROJECT FUSRAP/S405

HOLE NO. 540 5743

| HTRW DRILLING LOG                                                                                                                                                                                                                                              |  |            |                                             | DISTRICT <u>St. Louis</u>                                               |  | HOLE NUMBER <u>SD 5744</u>                   |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|---------------------------------------------|-------------------------------------------------------------------------|--|----------------------------------------------|--|
| 1. COMPANY NAME <u>IT Corporation</u>                                                                                                                                                                                                                          |  |            | 2. DRILL SUBCONTRACTOR <u>Geotechnology</u> |                                                                         |  | SHEET <u>1</u> OF <u>2</u>                   |  |
| 3. PROJECT <u>FUSAP/SDS</u>                                                                                                                                                                                                                                    |  |            |                                             | 4. LOCATION <u>Phillips Service</u>                                     |  |                                              |  |
| 5. NAME OF DRILLER <u>JIM McDONARD</u>                                                                                                                                                                                                                         |  |            |                                             | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>CME 55</u>                    |  |                                              |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>15.210L Ston Agmt</u><br><u>302.1 7POON</u>                                                                                                                                                           |  |            |                                             | 8. HOLE LOCATION                                                        |  |                                              |  |
|                                                                                                                                                                                                                                                                |  |            |                                             | 9. SURFACE ELEVATION                                                    |  |                                              |  |
|                                                                                                                                                                                                                                                                |  |            |                                             | 10. DATE STARTED <u>10/11/00</u>                                        |  | 11. DATE COMPLETED <u>10/11/00</u>           |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                       |  |            |                                             | 13. DEPTH OF GROUNDWATER ENCOUNTERED <u>N/A</u>                         |  |                                              |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                    |  |            |                                             | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u> |  |                                              |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                        |  |            |                                             | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u>                 |  |                                              |  |
| 16. GEOTECHNICAL SAMPLES <u>2</u>                                                                                                                                                                                                                              |  | DISTURBED  |                                             | UNDISTURBED                                                             |  | 16. TOTAL NUMBER OF CORE BOXES               |  |
| 17. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                              |  | VOC        |                                             | METALS                                                                  |  | OTHER (SPECIFY) <u>RPD</u>                   |  |
|                                                                                                                                                                                                                                                                |  |            |                                             |                                                                         |  | 17. TOTAL CORE RECOVERY                      |  |
| 18. DISPOSITION OF HOLE                                                                                                                                                                                                                                        |  | BACKFILLED |                                             | MONITORING WELL                                                         |  | 18. SIGNATURE OF INSPECTOR <u>Chris Cook</u> |  |
| LOCATION SKETCH/COMMENTS <u>Mackinac Bridge</u> SCALE:                                                                                                                                                                                                         |  |            |                                             |                                                                         |  |                                              |  |
| <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 80%;"> <p><u>Phillips Services Property</u></p> </div> <div style="width: 15%; text-align: center;"> <p>↑ N</p> <p>↕</p> <p>RP 5744</p> </div> </div> |  |            |                                             |                                                                         |  |                                              |  |
| PROJECT <u>FUSAP/SDS</u>                                                                                                                                                                                                                                       |  |            |                                             |                                                                         |  | HOLE NO. <u>SD 5744</u>                      |  |



# HTRW DRILLING LOG

PROJECT *FUSRAP/SUDS*

INSPECTOR *Chris Locke*

WELL NUMBER *540 5744*

SHEET *2* OF *2*

| CLON<br>NO | DEPTH<br>FT | DESCRIPTION OF MATERIALS<br>NO.                   | FIELD SCREENING<br>ACTIVITY<br>NO.  | CERTIFIED SAMPLE<br>OR CORE GRAB NO.<br>NO. | ANALYTICAL<br>SAMPLE NO.<br>NO. | REMARKS<br>NO.                                                                                   |
|------------|-------------|---------------------------------------------------|-------------------------------------|---------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------|
|            | 1           | SANDY - GRAVEL<br>BROWN, HARD, LOOSE,<br>Dry. FRI | 8400<br>COUNTS<br>NET<br>0.0<br>PID | 0.5<br>ton/ft.                              | 5400<br>5744<br>0845            | 1.5/20 Recovery                                                                                  |
|            | 2           | SLAG, CINDERS<br>BLACK, HARD LOOSE,<br>Dry. FRI.  | 8200<br>COUNTS<br>NET<br>0.0<br>PID |                                             | 5400<br>5786<br>0846            |                                                                                                  |
|            | 3           | T.D 20 ft                                         |                                     | 0855                                        | hrs                             | 10/11/00<br>Drum 1<br>(Philips Service)<br>8000 counts<br>NET Background<br>BF is Bendum<br>LAPS |

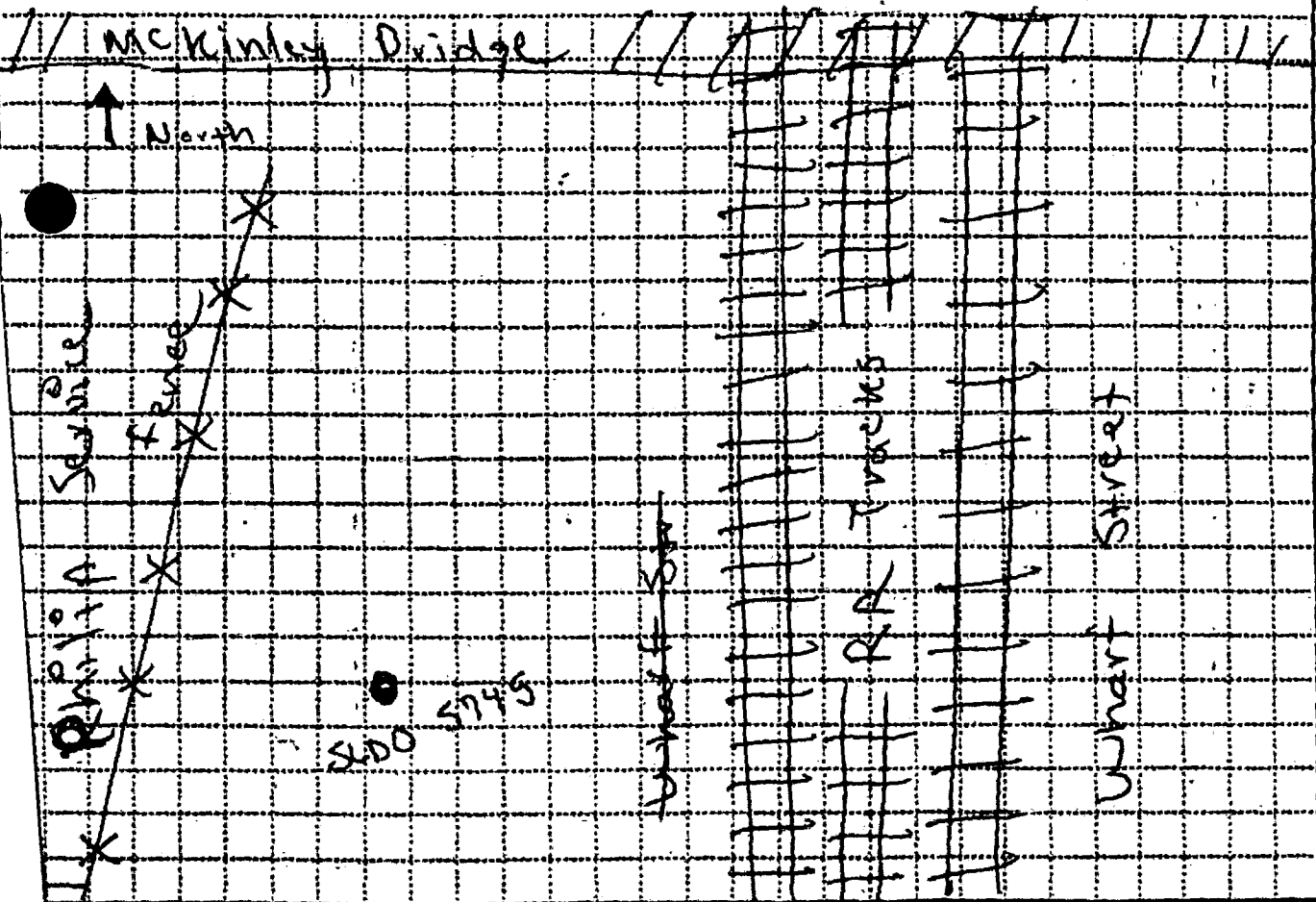
PROJECT *FUSRAP/SUDS*

WELL NUMBER *540 5744*

| HTRW DRILLING LOG                                                  |  | DISTRICT                                                           |  | HOLE NUMBER                    |  |
|--------------------------------------------------------------------|--|--------------------------------------------------------------------|--|--------------------------------|--|
| 1. COMPANY NAME<br>IT Corp                                         |  | St. Louis                                                          |  | 5745                           |  |
| 2. DRILL SUBCONTRACTOR<br>NA                                       |  |                                                                    |  | SHEET 1 OF 2                   |  |
| 3. PROJECT<br>FUSRAP / SLOS                                        |  | 4. LOCATION<br>Class II                                            |  |                                |  |
| 5. NAME OF DRILLER<br>NA                                           |  | 6. MANUFACTURER'S DESIGNATION OF DRILL                             |  |                                |  |
| 7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Hand Auger |  | 8. HOLE LOCATION<br>Philip Service                                 |  |                                |  |
|                                                                    |  | 9. SURFACE ELEVATION                                               |  |                                |  |
|                                                                    |  | 10. DATE STARTED<br>11/02/00                                       |  | 11. DATE COMPLETED<br>11/02/00 |  |
| 12. OVERBURDEN THICKNESS<br>NA                                     |  | 13. DEPTH GROUNDWATER ENCOUNTERED<br>NA                            |  |                                |  |
| 13. DEPTH DRILLED INTO ROCK<br>NA                                  |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>NA |  |                                |  |
| 14. TOTAL DEPTH OF HOLE<br>2'                                      |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>NA                 |  |                                |  |
| 15. GEOTECHNICAL SAMPLES                                           |  | 16. TOTAL NUMBER OF CORE BOXES                                     |  |                                |  |
| 17. SAMPLES FOR CHEMICAL ANALYSIS                                  |  | 18. TOTAL CORE RECOVERY                                            |  |                                |  |
| 19. DISPOSITION OF HOLE                                            |  | 20. SIGNATURE OF INSPECTOR                                         |  |                                |  |

LOCATION SKETCH/COMMENTS

SCALE: NA



|                          |  |                  |  |
|--------------------------|--|------------------|--|
| PROJECT<br>FUSRAP / SLOS |  | HOLE NO.<br>5745 |  |
|--------------------------|--|------------------|--|

FORM 5056-RL AUG 94

(Proponent: CECW-EG)

| HTRW DRILLING LOG |       |                          |                                 |                                |                       | WELL NUMBER                                                                  |
|-------------------|-------|--------------------------|---------------------------------|--------------------------------|-----------------------|------------------------------------------------------------------------------|
| PROJECT           |       |                          | INSPECTOR                       |                                | SHEET                 |                                                                              |
| FUSRAP / SLOS     |       |                          | J. Barker                       |                                | 5745                  |                                                                              |
| DATE              | DEPTH | DESCRIPTION OF MATERIALS | FIELD SCREENING RESULTS         | SECTION SAMPLE OR CORE DR. NO. | ANALYTICAL SAMPLE NO. | REMARKS                                                                      |
| CL                | 1'    | Silty clay w/ gravel     | 7842<br>counts<br>NaI<br>0.0010 | N/A                            | 5400<br>5743<br>0945  | hvs.<br>Hand Auger                                                           |
|                   | 2'    | concrete debris          | 7993<br>counts<br>0.0010<br>NaI |                                | 5400<br>5787<br>0955  | hvs.                                                                         |
|                   |       | T.O. 2.0'                |                                 |                                |                       |                                                                              |
|                   |       | 0957 hvs. 11/02/00       |                                 |                                |                       |                                                                              |
|                   |       |                          |                                 |                                |                       | Split/dupe<br>5745-1,2<br><br>Background<br>7891<br>counts/p/m<br><br>Drum # |

PROJECT

FUSRAP / SLOS

WELL NO.

5745

| HTRW DRILLING LOG                                                                                  |  |             |  | DISTRICT <u>St. Louis</u>                                               |  | HOLE NUMBER <u>SD 6164</u>                    |  |
|----------------------------------------------------------------------------------------------------|--|-------------|--|-------------------------------------------------------------------------|--|-----------------------------------------------|--|
| 1. COMPANY NAME <u>IT Corporation</u>                                                              |  |             |  | 2. DRILL SUBCONTRACTOR <u>Glartechology</u>                             |  | SHEET <u>1</u> OF <u>2</u>                    |  |
| 3. PROJECT <u>FUSRAP/SMS</u>                                                                       |  |             |  | 4. LOCATION <u>Ph. Rps Service</u>                                      |  |                                               |  |
| 5. NAME OF DRILLER <u>JIM MCOWARD</u>                                                              |  |             |  | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>CME 55</u>                    |  |                                               |  |
| 7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>Hollow 3/4" Auger</u><br><u>302.1 700r</u> |  |             |  | 8. HOLE LOCATION <u>CHASS 3</u>                                         |  |                                               |  |
|                                                                                                    |  |             |  | 9. SURFACE ELEVATION                                                    |  |                                               |  |
|                                                                                                    |  |             |  | 10. DATE STARTED <u>11/8/00</u>                                         |  | 11. DATE COMPLETED <u>11/8/00 -</u>           |  |
| 12. OVERBURDEN THICKNESS                                                                           |  |             |  | 13. DEPTH GROUNDWATER ENCOUNTERED <u>N/A</u>                            |  |                                               |  |
| 13. DEPTH DRILLED INTO ROCK                                                                        |  |             |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u> |  |                                               |  |
| 14. TOTAL DEPTH OF HOLE                                                                            |  |             |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u>                 |  |                                               |  |
| 16. GEOTECHNICAL SAMPLES <u>0</u>                                                                  |  | DISTURBED   |  | UNDISTURBED                                                             |  | 18. TOTAL NUMBER OF CORE BOXES                |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                  |  | VOC         |  | METALS                                                                  |  | OTHER (SPECIFY) <u>RAO</u>                    |  |
| 22. DISPOSITION OF HOLE                                                                            |  | SACK FILLED |  | MONITORING WELL                                                         |  | 23. SIGNATURE OF INSPECTOR <u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                           |  |             |  | SCALE:                                                                  |  |                                               |  |
|                                                                                                    |  |             |  |                                                                         |  |                                               |  |
| PROJECT <u>FUSRAP/SMS</u>                                                                          |  |             |  | HOLE NO. <u>SD 6164</u>                                                 |  |                                               |  |

# HTRW DRILLING LOG

PROJECT FYSRAP/SWS

INSPECTOR Chris Cook

WELL NUMBER SW 6164

SHEET 2

| LOG NO. | DEPTH (ft) | DESCRIPTION OF MATERIALS                                                | FIELD SCREENING RESULTS (1)                      | GEOTECH SAMPLE OR CORE DEN. NO. (2) | ANALYTICAL SAMPLE NO. (3) | REMARKS                                                                                                           |
|---------|------------|-------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------|
| SW      | 1          | Asphalt                                                                 | 5100 counts N-I                                  |                                     | SW 6164 (core) 0923       |                                                                                                                   |
|         | 2          | Slag, Gravel, Sand<br>Black-Brown.<br>Hard, Loose, Dry<br>Fini. Angular | 5400 counts N-I<br>BDD<br>5600 counts N-I<br>per | 0.5<br>10N/ft                       | SW 6164 0930              | 1.5<br>2.0 Recovery                                                                                               |
|         | 3          |                                                                         |                                                  |                                     | SW 6164 0934              |                                                                                                                   |
|         |            |                                                                         |                                                  |                                     |                           | TID 2.0 ft 0940 hrs 11/8/00<br>Drum: 2<br>(12H.R.P.S)<br>5500 counts<br>N-I Background<br>Bentonite chr<br>for BE |

5500

PROJECT FYSRAP/SWS

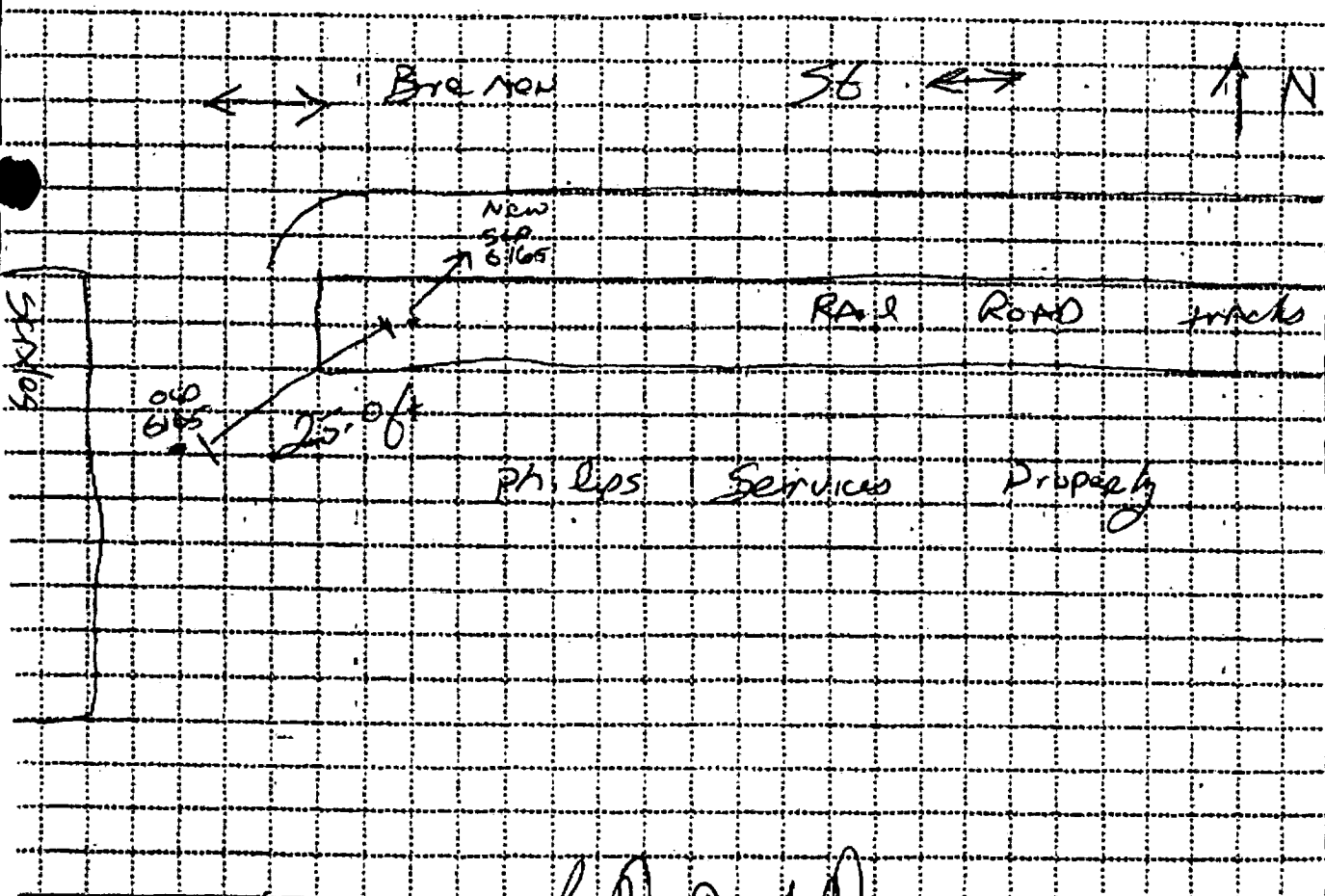
WELL NUMBER SW 6164



| HTRW DRILLING LOG                                                                         |            | DISTRICT                                                            | ST. Louis              |                                               | HOLE NUMBER                    | SD 6165                 |  |
|-------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------|------------------------|-----------------------------------------------|--------------------------------|-------------------------|--|
| 1. COMPANY NAME<br>IT Corporation                                                         |            | 2. DRILL SUBCONTRACTOR<br>Geotechnical                              |                        |                                               | SHEET 1 OF 2                   |                         |  |
| 3. PROJECT<br>FUSRAP/SDS                                                                  |            | 4. LOCATION<br>Ph. Lips Service                                     |                        |                                               |                                |                         |  |
| 5. NAME OF DRILLER<br>Kevin Bassler                                                       |            | 6. MANUFACTURER'S DESIGNATION OF DRILL<br>CME 55                    |                        |                                               |                                |                         |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Hollow Stem Auger<br>Split Spoon |            | 8. HOLE LOCATION<br>Class 3                                         |                        |                                               |                                |                         |  |
|                                                                                           |            | 9. SURFACE ELEVATION                                                |                        |                                               |                                |                         |  |
|                                                                                           |            | 10. DATE STARTED<br>11/13/00                                        |                        |                                               | 11. DATE COMPLETED<br>11/13/00 |                         |  |
| 12. OVERBURDEN THICKNESS                                                                  |            | 13. DEPTH GROUNDWATER ENCOUNTERED<br>N/A                            |                        |                                               |                                |                         |  |
| 13. DEPTH DRILLED INTO ROCK                                                               |            | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A |                        |                                               |                                |                         |  |
| 14. TOTAL DEPTH OF HOLE                                                                   |            | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                 |                        |                                               |                                |                         |  |
| 16. GEOTECHNICAL SAMPLES                                                                  | DISTURBED  | UNDISTURBED                                                         |                        | 19. TOTAL NUMBER OF CORE BOXES                |                                |                         |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                         | VOC        | METALS                                                              | OTHER (SPECIFY)<br>RAD | OTHER (SPECIFY)                               | OTHER (SPECIFY)                | 21. TOTAL CORE RECOVERY |  |
| 22. DISPOSITION OF HOLE                                                                   | BACKFILLED | MONITORING WELL                                                     | OTHER (SPECIFY)        | 23. SIGNATURE OF INSPECTOR<br>Mr. [Signature] |                                |                         |  |

LOCATION SKETCH/COMMENTS

SCALE:



PROJECT FUSRAP/SDS

HOLE NO. SD 6165

FORM 8056-R, AUG 94

(Proponent: CECW-EG)

11/14/00

# HTRW DRILLING LOG

PROJECT *FLS RPP/SW*

INSPECTOR *Chris Lock*

WELL NUMBER  
*SW 6165*

SHEET  
*2* OF *2*

| CLAY<br>NO. | DEPTH<br>FT | DESCRIPTION OF MATERIALS<br>NO.                          | FIELD SCREENING<br>RESULTS<br>NO.    | CEMENTED SAMPLE<br>OR CORE BOX NO.<br>NO. | ANALYTICAL<br>SAMPLE NO.<br>NO. | REMARKS<br>NO.                                                                                  |
|-------------|-------------|----------------------------------------------------------|--------------------------------------|-------------------------------------------|---------------------------------|-------------------------------------------------------------------------------------------------|
| <i>SW</i>   | 1           | SAND, GRAVEL,<br>BROWN, HARD, LOOSE<br>Moist (from Rain) | 5600<br>COUNTS<br>NET<br>9.5m<br>PTD | 0.15<br>10/16/12                          | 5000<br>6265<br>1406            | 1.5<br>2.0 Recovery                                                                             |
|             | 2           |                                                          | 5300<br>COUNTS<br>NET<br>0.0<br>PTD  |                                           | 689<br>1406                     | -                                                                                               |
|             | 3           | TID                                                      | 2.0 ft                               | 1415 h3                                   |                                 | 11/13/10.<br>Dmn: 2<br>Cph. 0.05<br>5400 counts<br>NET Background<br>Bentonite Chlor<br>for BR. |

*5400*

PROJECT *FLS RPP/SW*

WELL NUMBER  
*SW 6165*

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |  | DISTRICT <u>SL Louis</u>                                                   |  | HOLE NUMBER<br><u>S.D. 6166</u>              |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|----------------------------------------------------------------------------|--|----------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |            |  | 2. DRILL SUBCONTRACTOR<br><u>Geotechnics</u>                               |  | SHEET <u>1</u> OF <u>2</u>                   |  |
| 3. PROJECT<br><u>FUSRAP/SWS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |            |  | 4. LOCATION<br><u>Ph. Lps Service</u>                                      |  |                                              |  |
| 5. NAME OF DRILLER<br><u>Don Bassler</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                    |  |                                              |  |
| 7. SIZE AND TYPE OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Stem Auger</u><br><u>S.D. 1 S.D. 2</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  | 8. HOLE LOCATION<br><u>CLASS 3</u>                                         |  |                                              |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |            |  | 9. SURFACE ELEVATION                                                       |  |                                              |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |            |  | 10. DATE STARTED<br><u>11/13/00</u>                                        |  | 11. DATE COMPLETED<br><u>11/13/00</u>        |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |            |  | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                              |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |            |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                              |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                              |  |
| 16. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | DISTURBED  |  | UNDISTURBED                                                                |  | 15. TOTAL NUMBER OF CORE BOXES               |  |
| 16. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | VOC        |  | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAO</u>                |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |            |  |                                                                            |  | 17. TOTAL CORE RECOVERY                      |  |
| 22. DEPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | BACKFILLED |  | MONITORING WELL                                                            |  | OTHER (SPECIFY)                              |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |            |  |                                                                            |  | 23. SIGNATURE OF INSPECTOR<br><u>Don Tub</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |            |  |                                                                            |  |                                              |  |
| SCALE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |            |  |                                                                            |  |                                              |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; left: 10%; font-size: 2em;">Bremen Ave</div> <div style="position: absolute; top: 40%; left: 20%; font-size: 1.5em;">PH. LPS Service Property</div> <div style="position: absolute; top: 60%; left: 30%; font-size: 1.2em;">New S.D. 6166</div> <div style="position: absolute; top: 60%; left: 45%; font-size: 1.2em;">Old S.D. 6166</div> <div style="position: absolute; top: 60%; left: 55%; border: 1px solid black; padding: 5px; font-size: 1.2em;">SMALL BUILDING</div> <div style="position: absolute; top: 70%; left: 35%; font-size: 1.5em;">6.2 ft</div> <div style="position: absolute; top: 10%; right: 10%; text-align: center;"> <div style="font-size: 2em;">↑</div> <div>N</div> </div> </div> |  |            |  |                                                                            |  |                                              |  |
| PROJECT<br><u>FUSRAP/SWS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            |  | HOLE NO.<br><u>S.D. 6166</u>                                               |  |                                              |  |

FORM 5056-R, AUG 94

11/14/00

(Proponent: CECW-EG)

| HTRW DRILLING LOG     |              |                                                                   |                                                                                                               |                                  |                                |                                                                                                                    | HOLE NUMBER<br>SND 6166 |
|-----------------------|--------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------|
| PROJECT<br>FUSRAP/SND |              | INSPECTOR<br>Chris Lock                                           |                                                                                                               |                                  | SHEET<br># 2 OF 2              |                                                                                                                    |                         |
| CST.<br>NO.           | DEPTH<br>FT. | DESCRIPTION OF MATERIALS                                          | FIELD SCREENING<br>RESULTS                                                                                    | DETECT SAMPLE<br>BY CORE BIT NO. | ANALYTICAL<br>SAMPLE NO.       | REMARKS                                                                                                            |                         |
|                       |              | Concrete                                                          | 4700<br>counts<br>NaI                                                                                         |                                  | SND<br>6166 cover)             |                                                                                                                    |                         |
|                       | 1            | SAND, GRAVEL,<br>TANISH-BROWN-<br>HARD LOOSE, DRY.<br>ALL Angular | <del>4900</del><br>4700<br>counts<br>NaI<br>O.D.<br>IDP<br>RSD<br>5200<br>counts<br>NaI<br>O.D.<br>IDP<br>RSD | 0.5<br>in/fz                     | SND<br>6166<br><del>1447</del> | $\frac{1.5}{2.0}$ Recovery                                                                                         |                         |
|                       | 2            |                                                                   |                                                                                                               |                                  | SND<br>6190<br>1450            |                                                                                                                    |                         |
|                       | 3            |                                                                   |                                                                                                               |                                  |                                | FID 2.7 ft 1300 hrs 11/13/00<br>Drum: 2<br>(PH. RPS)<br>5300 counts<br>NaI Background<br>Bentonite core<br>for BF. |                         |

5300

GW-  
SW

1

2

3

|            |          |          |
|------------|----------|----------|
| FID 2.7 ft | 1300 hrs | 11/13/00 |
|------------|----------|----------|

Drum: 2  
(ph. 2 ps)  
5300 counts  
NaI Background  
Bentonite chr  
for BF.

0.5  
100/612

| HTRW DRILLING LOG                                                                                         |  |            |  | DISTRICT <u>SL</u> <u>Loans</u>                                            |  | HOLE NUMBER<br><u>SLD 6167</u>                   |  |
|-----------------------------------------------------------------------------------------------------------|--|------------|--|----------------------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                  |  |            |  | 2. DRILL SUBCONTRACTOR<br><u>Geotechnical</u>                              |  | SHEET <u>1</u> OF <u>2</u>                       |  |
| 3. PROJECT<br><u>FUSRAA SWS</u>                                                                           |  |            |  | 4. LOCATION<br><u>Ph. 2, 15 Service</u>                                    |  |                                                  |  |
| 5. NAME OF DRILLER<br><u>Kouu Bossler</u>                                                                 |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                    |  |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Stem Auger</u><br><u>3" Dia. 500cm</u> |  |            |  | 8. HOLE LOCATION<br><u>Class 3</u>                                         |  |                                                  |  |
|                                                                                                           |  |            |  | 9. SURFACE ELEVATION                                                       |  |                                                  |  |
|                                                                                                           |  |            |  | 10. DATE STARTED<br><u>11/13/00</u>                                        |  | 11. DATE COMPLETED<br><u>11/13/00</u>            |  |
| 12. OVERBURDEN THICKNESS                                                                                  |  |            |  | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                               |  |            |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                  |  |
| 14. TOTAL DEPTH OF HOLE                                                                                   |  |            |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                  |  |
| 18. GEOTECHNICAL SAMPLES                                                                                  |  | DISTURBED  |  | UNDISTURBED                                                                |  | 19. TOTAL NUMBER OF CORE BOXES                   |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                         |  | VOC        |  | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAO</u>                    |  |
|                                                                                                           |  |            |  |                                                                            |  | 21. TOTAL CORE RECOVERY                          |  |
| 22. DISPOSITION OF HOLE                                                                                   |  | BACKFILLED |  | MONITORING WELL                                                            |  | 23. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                  |  |            |  |                                                                            |  |                                                  |  |
| SCALE:                                                                                                    |  |            |  |                                                                            |  |                                                  |  |
|                                                                                                           |  |            |  |                                                                            |  |                                                  |  |
| PROJECT<br><u>FUSRAA SWS</u>                                                                              |  |            |  | HOLE NO.<br><u>SLD 6167</u>                                                |  |                                                  |  |

FORM 5056-R, AUG 94

(Proponent: CECW-EG)

11/14/00

# HTRW DRILLING LOG

PROJECT *FUSAP/SOS*

INSPECTOR *Chris Cook*

WELL NUMBER *540 6167*

SHEET *002* OF *002*

| DATE | DEPTH | DESCRIPTION OF MATERIALS                         | FIELD SCREENING RESULTS          | TESTED SAMPLE OR CORE DEPTH | ANALYTICAL SAMPLE NO. | REMARKS                                                                                          |
|------|-------|--------------------------------------------------|----------------------------------|-----------------------------|-----------------------|--------------------------------------------------------------------------------------------------|
|      |       |                                                  | 4600 counts<br>NAI<br>0.0        |                             | 540<br>6167 (core)    | N/A                                                                                              |
|      | 1     | SLY, BLACK, HARD,<br>LOOSE, Dig, FLL,<br>Angular | 4600 counts<br>NAI<br>0.0<br>PTD | 0-3 ft<br>fml/gc            | 540<br>6167<br>1555   | 1-5 / 2.0 Recovery.                                                                              |
|      | 2     | Brick - Red                                      |                                  |                             |                       |                                                                                                  |
|      |       | SLY, Black, HARD,<br>LOOSE, Dig, FLL<br>Angular  | 5300 counts<br>NAI<br>0.0<br>PTD |                             | 540<br>1600           |                                                                                                  |
|      | 3     | T.D 2.6 ft                                       |                                  | 1610                        | NAI                   | 11/13/00.<br>Drain: 2<br>(ph. lps)<br>4800 counts NAI<br>Background<br>Bentonite chip<br>for BF. |

PROJECT *FUSAP/SOS*

WELL NUMBER *540 6167*



| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |            |  | DISTRICT <u>St. Louis</u>                                                 |  | HOLE NUMBER<br><u>Sub 6168</u>               |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|---------------------------------------------------------------------------|--|----------------------------------------------|--|
| 1. COMPANY NAME <u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |            |  | 2. DRILL SUBCONTRACTOR<br><u>Geotechnology</u>                            |  | SHEET <u>1</u> OF <u>2</u>                   |  |
| 3. PROJECT <u>FUSAP/SMS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            |  | 4. LOCATION <u>Ph. Rps Server</u>                                         |  |                                              |  |
| 5. NAME OF DRILLER<br><u>SM McDONNELL</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CNE 55</u>                   |  |                                              |  |
| 7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Handy Star Auger</u><br><u>SPCA Star</u>                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |  | 8. HOLE LOCATION<br><u>Class 3</u>                                        |  |                                              |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  | 9. SURFACE ELEVATION                                                      |  |                                              |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  | 10. DATE STARTED<br><u>11/8/00</u>                                        |  | 11. DATE COMPLETED<br><u>11/8/00</u>         |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |  | 13. DEPTH OF GROUND WATER ENCOUNTERED<br><u>NA</u>                        |  |                                              |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>NA</u> |  |                                              |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |            |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>NA</u>                 |  |                                              |  |
| 16. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | DISTURBED  |  | UNDISTURBED                                                               |  | 18. TOTAL NUMBER OF CORE BOXES               |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | VOC        |  | METALS                                                                    |  | OTHER (SPECIFY)<br><u>RAO</u>                |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  |                                                                           |  | 21. TOTAL CORE RECOVERY                      |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | BACKFILLED |  | MONITORING WELL                                                           |  | 23. SIGNATURE OF INSPECTOR<br><u>Ph. Rps</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |  | SCALE:                                                                    |  |                                              |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; left: 40%;"> <u>Sub</u><br/> <u>6168</u> </div> <div style="position: absolute; top: 40%; left: 10%;"> <u>Direction</u> </div> <div style="position: absolute; top: 60%; left: 30%;"> <u>Ph. Rps Server</u><br/> <u>Building</u> </div> <div style="position: absolute; top: 80%; left: 20%;"> <u>HAC</u> </div> <div style="position: absolute; top: 80%; left: 40%;"> <u>BE</u> </div> </div> |  |            |  |                                                                           |  |                                              |  |
| PROJECT <u>FUSAP/SMS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |  | HOLE NO.<br><u>Sub 6168</u>                                               |  |                                              |  |

# HTRW DRILLING LOG

PROJECT *FUSRAP/SURS*

INSPECTOR *Chris Locke*

WELL NUMBER  
*SUP 6168*  
SHEET  
*2* OF *2*

| BLK. NO.  | DEPTH (ft) | DESCRIPTION OF MATERIALS                                   | FIELD SCREENING RESULTS                        | DETECT SAMPLE OR CORE BOX NO.     | ANALYTICAL SAMPLE NO.         | REMARKS                                                                                                                                                                              |
|-----------|------------|------------------------------------------------------------|------------------------------------------------|-----------------------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>GU</i> | 1          | <i>SLY GRAND, MCHP<br/>BROWN, HARD LOOSE<br/>Dry. F.S.</i> | <i>5100<br/>COUNTS<br/>NET<br/>0.0<br/>PSP</i> | <i>0.5<br/>ton/ft<sup>2</sup></i> | <i>5100<br/>6168<br/>0845</i> | <i>11/20 Reconn</i>                                                                                                                                                                  |
|           | 2          |                                                            | <i>5600<br/>COUNTS<br/>NET<br/>0.0<br/>PSP</i> |                                   | <i>5100<br/>6192<br/>0844</i> |                                                                                                                                                                                      |
|           | 3          | <i>TID</i>                                                 | <i>20"</i>                                     |                                   | <i>hrs</i>                    |                                                                                                                                                                                      |
|           |            |                                                            |                                                |                                   |                               | <i>Drill - 2<br/>(ph. &amp; p)<br/>4500 counts<br/>NET Background<br/>Bentonite chip<br/>f. BF<br/>TID each<br/>Dug to Refersml.<br/>with O.K. from<br/>USNLE Rep<br/>Rain Panko</i> |

*(4500)*

PROJECT *FUSRAP/SURS*

WELL NO. *SUP 6168*

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |            |  | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER<br><u>SND 6169</u>                   |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|----------------------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                         |  |            |  | 2. DRILL SUBCONTRACTOR<br><u>Geotechnology</u>                             |  | SHEET <u>1</u> OF <u>2</u>                       |  |
| 3. PROJECT<br><u>FUSRAP/SND</u>                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |            |  | 4. LOCATION<br><u>Ph. Lips Service</u>                                     |  |                                                  |  |
| 5. NAME OF DRILLER<br><u>KDW Bossler</u>                                                                                                                                                                                                                                                                                                                                                                                                                         |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CNE 55</u>                    |  |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Horton Stan Angel</u><br><u>SRL 1 group</u>                                                                                                                                                                                                                                                                                                                                                          |  |            |  | 8. HOLE LOCATION<br><u>CLASS 3</u>                                         |  |                                                  |  |
| 9. SURFACE ELEVATION                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |            |  | 10. DATE STARTED<br><u>11/14/00</u>                                        |  |                                                  |  |
| 11. DATE COMPLETED<br><u>11/14/00</u>                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            |  | 12. OVERBURDEN THICKNESS                                                   |  |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |            |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                  |  |
| 15. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |            |  | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                  |  |
| 17. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                             |  | DISTURBED  |  | UNDISTURBED                                                                |  | 18. TOTAL NUMBER OF CORE BOXES                   |  |
| 19. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                |  | VOC        |  | METALS                                                                     |  | OTHER (SPECIFY)<br><u>MSD</u>                    |  |
| 20. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | BACKFILLED |  | MONITORING WELL                                                            |  | 21. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
| 22. LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |  | SCALE:                                                                     |  |                                                  |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; right: 10%; font-size: 2em;">N</div> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 1.5em;">SND 6169</div> <div style="position: absolute; bottom: 10%; left: 10%; font-size: 1.2em;">SND 6171</div> <div style="position: absolute; bottom: 10%; right: 10%; font-size: 1.2em;">SND 6170</div> </div> |  |            |  |                                                                            |  |                                                  |  |
| PROJECT <u>FUSRAP/SND</u>                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  | HOLE NO. <u>SND 6169</u>                                                   |  |                                                  |  |

# HTRW DRILLING LOG

| PROJECT   |       | INSPECTOR                |                         | WELL NUMBER                       |                         |
|-----------|-------|--------------------------|-------------------------|-----------------------------------|-------------------------|
| FUSAP/SUP |       | HIS Lock                 |                         | SUD 6169                          |                         |
| ELEV.     | DEPTH | DESCRIPTION OF MATERIALS | FIELD SCREENING RESULTS | GEOTECH SAMPLE OR CORE IDENT. NO. | ANALYTICAL SAMPLE NO.   |
|           |       | CONCRETE                 |                         |                                   | SUD 6169 (core)<br>1500 |
|           |       | SAND, Gravel             | 3000<br>COUNTS<br>NAT   | 0.15<br>TON/612                   | SUD 6169<br>1507        |
|           |       |                          |                         |                                   | 1.5<br>2.0 RECOVERY     |
|           |       |                          |                         |                                   | Strong ODOOR<br>Noted   |
|           |       |                          |                         |                                   | SUD 6193<br>1510        |
|           |       | T.D. 2.4 ft              | 1515                    | 11/14/00                          |                         |
|           |       |                          |                         | Drum: 2<br>(12h. dips)            |                         |
|           |       |                          |                         | 2700 counts<br>NAT Background     |                         |
|           |       |                          |                         | Bentonite chips<br>for BF.        |                         |

SW-  
GW

2.700

FUSAP/SUP

SUD 6169

| HTRW DRILLING LOG                                                                                   |  |            |                                            | DISTRICT <u>St. Louis</u>                                               |  | HOLE NUMBER <u>SD 6170</u>                    |  |
|-----------------------------------------------------------------------------------------------------|--|------------|--------------------------------------------|-------------------------------------------------------------------------|--|-----------------------------------------------|--|
| 1. COMPANY NAME <u>IT Corporation</u>                                                               |  |            | 2. DRILL SUBCONTRACTOR <u>Geotecnology</u> |                                                                         |  | SHEET <u>1</u> OF <u>2</u> SHEETS             |  |
| 3. PROJECT <u>FUSRAP/SDS</u>                                                                        |  |            |                                            | 4. LOCATION <u>Ph. 2ps Service</u>                                      |  |                                               |  |
| 5. NAME OF DRILLER <u>Kevin Bossler</u>                                                             |  |            |                                            | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>CLASS 3</u>                   |  |                                               |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>Horton 2in Auger</u><br><u>split spoon</u> |  |            |                                            | 8. HOLE LOCATION <u>CHE 55</u>                                          |  |                                               |  |
|                                                                                                     |  |            |                                            | 9. SURFACE ELEVATION                                                    |  |                                               |  |
|                                                                                                     |  |            |                                            | 10. DATE STARTED <u>11/14/00</u>                                        |  | 11. DATE COMPLETED <u>11/14/00</u>            |  |
| 12. OVERBURDEN THICKNESS                                                                            |  |            |                                            | 13. DEPTH GROUNDWATER ENCOUNTERED <u>N/A</u>                            |  |                                               |  |
| 13. DEPTH DRILLED INTO ROCK                                                                         |  |            |                                            | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u> |  |                                               |  |
| 14. TOTAL DEPTH OF HOLE                                                                             |  |            |                                            | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u>                 |  |                                               |  |
| 16. GEOTECHNICAL SAMPLES <u>0</u>                                                                   |  | DISTURBED  |                                            | UNDISTURBED                                                             |  | 18. TOTAL NUMBER OF CORE BOXES                |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                   |  | VOC        |                                            | METALS                                                                  |  | OTHER (SPECIFY) <u>Rad</u>                    |  |
| 22. DISPOSITION OF HOLE                                                                             |  | BACKFILLED |                                            | MONITORING WELL                                                         |  | 21. TOTAL CORE RECOVERY                       |  |
|                                                                                                     |  |            |                                            | OTHER (SPECIFY)                                                         |  | 27. SIGNATURE OF INSPECTOR <u>[Signature]</u> |  |

LOCATION SKETCH/COMMENTS

SCALE:

|                           |                         |
|---------------------------|-------------------------|
| PROJECT <u>FUSRAP/SDS</u> | HOLE NO. <u>SD 6170</u> |
|---------------------------|-------------------------|

FORM 5056-R, AUG 94

(Proponent: CECW-EG)

# HTRW DRILLING LOG

| PROJECT     |                                                          | INSPECTOR               |                                | WELL NUMBER           |                                                                                      |
|-------------|----------------------------------------------------------|-------------------------|--------------------------------|-----------------------|--------------------------------------------------------------------------------------|
| FUSPAR/SUPs |                                                          | Chris Lock              |                                | SND 6170              |                                                                                      |
| DATE        |                                                          | SHEET                   |                                | SHEET                 |                                                                                      |
|             |                                                          | 2                       |                                | 2                     |                                                                                      |
| DEPTH       | DESCRIPTION OF MATERIALS                                 | FIELD SCREENING RESULTS | CERTIFIED SAMPLE OR CORE DEPTH | ANALYTICAL SAMPLE NO. | REMARKS                                                                              |
| 1           | GRAND, SAND, BROWN, HARD, LOOSE, wet (FROM RAIN)         | 2500 counts NIS OJ PJD  | 0.5 ton/ft <sup>2</sup>        | 500 0170 1446         | 1.5/2 Recovery                                                                       |
| 2           | Lean clay with gravel BROWN, HARD, LOOSE wet (FROM RAIN) | 300 counts NIS OJ PJD   |                                | 500 6194 1450         |                                                                                      |
| 3           | T.D. 20 ft                                               |                         | 1500                           | NIS                   | 11/14/00<br>Draw: 2 (ph. logs)<br>2700 counts NIS Background Bentonite chips. for BF |

2700

SND 6170



| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  | DISTRICT <u>SL. Lou-3</u>                               |  | SLD 6171                                      |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|---------------------------------------------------------|--|-----------------------------------------------|--|
| 1. COMPANY NAME <u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |  | 2. DRILL SUBCONTRACTOR <u>Geotechnology</u>             |  | SHEET <u>1</u> OF <u>2</u>                    |  |
| 3. PROJECT <u>FUSAP/SNS</u>                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |  | 4. LOCATION <u>Ph. 2ps Saigon</u>                       |  |                                               |  |
| 5. NAME OF DRILLER <u>Kevin Bessler</u>                                                                                                                                                                                                                                                                                                                                                                                                  |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>CME</u>       |  |                                               |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>Hollow Stem Auger</u><br><u>S.P.T. SPSOP</u>                                                                                                                                                                                                                                                                                                                                    |  |            |  | 8. HOLE LOCATION <u>CLASS 3</u>                         |  |                                               |  |
| 9. SURFACE ELEVATION                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |  | 10. DATE STARTED <u>11/14/00</u>                        |  |                                               |  |
| 11. DATE COMPLETED <u>11/14/00</u>                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |  | 12. OVERBURDEN THICKNESS                                |  |                                               |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |  | 14. DEPTH GROUNDWATER ENCOUNTERED <u>N/A</u>            |  |                                               |  |
| 15. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                  |  |            |  | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u> |  |                                               |  |
| 17. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                  |  |            |  | 18. TOTAL NUMBER OF CORE BOXES                          |  |                                               |  |
| 19. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                                 |  | DISTURBED  |  | UNDISTURBED                                             |  | 20. TOTAL NUMBER OF CORE BOXES                |  |
| 21. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                        |  | VOC        |  | METALS                                                  |  | OTHER (SPECIFY) <u>RAD</u>                    |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                  |  | BACKFILLED |  | MONITORING WELL                                         |  | 23. SIGNATURE OF INSPECTOR <u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  | SCALE:                                                  |  |                                               |  |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><u>Note - T.D. Due to Refusal</u><br/><u>after trying to make the boring</u><br/><u>due to the usage of the</u></p> <p><u>OK by [Signature]</u></p> </div> <div style="width: 50%;"> <p><u>Building</u></p> <p><u>TRAIN</u></p> <p><u>TRUCK</u></p> <p><u>Building</u></p> <p><u>NEW SLD 6171</u></p> <p><u>OLD SLD 6171</u></p> </div> </div> |  |            |  |                                                         |  |                                               |  |
| PROJECT <u>FUSAP/SNS</u>                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  | HOLE NO. <u>SLD 6171</u>                                |  |                                               |  |

| HTRW DRILLING LOG                                                                                    |  |            |                                                                            | DISTRICT <u>St. Louis</u> |                                       | SLD 6172                                         |  |
|------------------------------------------------------------------------------------------------------|--|------------|----------------------------------------------------------------------------|---------------------------|---------------------------------------|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT CORPORATION</u>                                                             |  |            | 2. DRILL SUBCONTRACTOR<br><u>Geotechnics</u>                               |                           |                                       |                                                  |  |
| 3. PROJECT<br><u>FUSRAP/SWS</u>                                                                      |  |            | 4. LOCATION<br><u>Philips Service</u>                                      |                           |                                       | 1 OF 2                                           |  |
| 5. NAME OF DRILLER<br><u>JIM McDONALD</u>                                                            |  |            | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                    |                           |                                       |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Stem Auger</u><br><u>SOFT SAW</u> |  |            | 8. HOLE LOCATION<br><u>CLASS 3</u>                                         |                           |                                       |                                                  |  |
|                                                                                                      |  |            | 9. SURFACE ELEVATION                                                       |                           |                                       |                                                  |  |
|                                                                                                      |  |            | 10. DATE STARTED<br><u>10/31/00</u>                                        |                           | 11. DATE COMPLETED<br><u>10/31/00</u> |                                                  |  |
| 12. OVERBURDEN THICKNESS                                                                             |  |            | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |                           |                                       |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                          |  |            | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |                           |                                       |                                                  |  |
| 14. TOTAL DEPTH OF HOLE                                                                              |  |            | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |                           |                                       |                                                  |  |
| 16. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                 |  | DISTURBED  |                                                                            | UNDISTURBED               |                                       | 18. TOTAL NUMBER OF CORE BOXES                   |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                    |  | VOC        |                                                                            | METALS                    |                                       | OTHER (SPECIFY)<br><u>RAO</u>                    |  |
| 21. DISPOSITION OF HOLE                                                                              |  | BACKFILLED |                                                                            | MONITORING WELL           |                                       | 22. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                             |  |            |                                                                            | SCALE:                    |                                       |                                                  |  |
|                                                                                                      |  |            |                                                                            |                           |                                       |                                                  |  |
| PROJECT <u>FUSRAP/SWS</u>                                                                            |  |            |                                                                            |                           |                                       | HOLE NO.<br><u>50 6172</u>                       |  |

## HTRW DRILLING LOG.

3-0 6172

WOLF

2 2

PROJECT F45 RAP/SWCS

INSPECTOR *Ship look*

| DATE | DEPTH | DESCRIPTION OF MATERIALS                                   | FIELD SCREENING RESULTS                   | CORRECTED SAMPLE OR CORE DEPTH NO. | ANALYTICAL SAMPLE NO. | REMARKS                                                                                         |
|------|-------|------------------------------------------------------------|-------------------------------------------|------------------------------------|-----------------------|-------------------------------------------------------------------------------------------------|
| GW   | 1     | GRAVEL, SAND<br>Brown, HARD, LOOSE,<br>Dry, FILL, Angular. | 4300<br>COUNTS<br>NET<br>0.1<br>PPM<br>Pb | 0.5<br>10/15/12                    | 3200<br>612<br>1445   | 2.0<br>2.0 Recovery<br><br>Strong petrolier<br>ODOR Notes.                                      |
|      | 2     | Brick, Gravel<br>Red.                                      | 4700<br>COUNTS<br>NET<br>0.1<br>PPM<br>Pb |                                    | 3100<br>6197<br>1449  |                                                                                                 |
|      | 3     | T.D.                                                       | 2.0                                       | 1500                               |                       | his 10/31/12<br>Drum 2<br>(ph. his)<br><br>4600 counts<br>NET Background<br>Bamboo or<br>for Bi |

Fugate/SWS

Sup 6172

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                         |  | DISTRICT <u>ST. Louis</u>                               |  | HOLE NUMBER <u>SD 673</u>                                    |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------|--|---------------------------------------------------------|--|--------------------------------------------------------------|--|
| 1. COMPANY NAME <u>FUSAM/SDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                                         |  | 2. DRILL SUBCONTRACTOR <u>Geotecnology</u>              |  | SHEET <u>1</u> OF <u>2</u>                                   |  |
| 3. PROJECT <u>JIT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                         |  | 4. LOCATION <u>Ph. L. PS Service</u>                    |  |                                                              |  |
| 5. NAME OF DRILLER <u>JIM McDONALD</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                                         |  | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>C-E 55</u>    |  |                                                              |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | <u>Hollow Stem Auger</u><br><u>SDR spoon</u>                            |  | 8. HOLE LOCATION <u>CLASS 3</u>                         |  | 9. SURFACE ELEVATION                                         |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | 10. DATE STARTED <u>11/7/00</u>                                         |  | 11. DATE COMPLETED <u>11/7/00</u>                       |  | 13. DEPTH GROUNDWATER ENCOUNTERED <u>N/A</u>                 |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u> |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u> |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | 18. GEOTECHNICAL SAMPLES                                                |  | 19. TOTAL NUMBER OF CORE BOXES                          |  | 20. SIGNATURE OF INSPECTOR <u>[Signature]</u>                |  |
| 18. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | OBTAINED                                                                |  | UNOBTAINED                                              |  | 21. TOTAL CORE RECOVERY                                      |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | VOC                                                                     |  | METALS                                                  |  | OTHER (SPECIFY) <u>RAO</u>                                   |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | BAGGED                                                                  |  | MONITORING WELL                                         |  | OTHER (SPECIFY)                                              |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                                         |  |                                                         |  |                                                              |  |
| SCALE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                                         |  |                                                         |  |                                                              |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; left: 20%;">SD 673</div> <div style="position: absolute; top: 10%; left: 55%;">673</div> <div style="position: absolute; top: 45%; left: 15%;">RAIL</div> <div style="position: absolute; top: 45%; left: 30%;">ROAD</div> <div style="position: absolute; top: 45%; left: 50%;">TRACKS</div> <div style="position: absolute; top: 50%; left: 65%; border: 1px solid black; padding: 5px; width: 150px; height: 40px;"> SCARP<br/>HOUSE </div> <div style="position: absolute; top: 10%; right: 10%; text-align: center;"> ↑ N </div> </div> |  |                                                                         |  |                                                         |  |                                                              |  |
| PROJECT <u>FUSAM/SDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                                         |  |                                                         |  | HOLE NO. <u>SD 673</u>                                       |  |

# HTRW DRILLING LOG

| PROJECT   |       | INSPECTOR                                               |                                             | HOLE NUMBER                   |                                                                                 |
|-----------|-------|---------------------------------------------------------|---------------------------------------------|-------------------------------|---------------------------------------------------------------------------------|
| FUGAP/300 |       | Chris Lock                                              |                                             | SD 673                        |                                                                                 |
| BLK       | DEPTH | DESCRIPTION OF MATERIALS                                | FIELD SCREENING RESULTS                     | DETERMINED SAMPLE OR CORE NO. | ANALYTICAL SAMPLE NO.                                                           |
| GW        | 1     | STK SAND GRAVEL,<br>Brown, HARD, LOOSE,<br>Dry, FLY     | 4700<br>COUNTS<br>NAT.<br>0.0<br>PPM<br>ATD | 0.15<br>TON/FT <sup>2</sup>   | 5400<br>6173<br>1024                                                            |
| GW        | 2     | GRAVEL,<br>TAN - white, HARD,<br>Loose, Dry, FLY        | 4900<br>COUNTS<br>NAT.<br>0.0<br>PPM        | -                             | 5400<br>6196<br>1025M                                                           |
|           | 2     | GRAVEL, Brown, HARD,<br>Loose, Dry, FLY, Wet (from RND) |                                             |                               |                                                                                 |
|           | 3     | T.D.                                                    | 2.061                                       | 1030                          | hrs 11/1/00                                                                     |
|           |       |                                                         |                                             |                               | Drum 2<br>(p.h.d.p.s)<br>4600 counts<br>NAT. BACKGR<br>Bentonite chip<br>for BF |

FUGAP/300

SD 673

4600

| HTRW DRILLING LOG                                                                                          |  |            |  | DISTRICT <u>St. Louis</u>                                               |  | HOLE NUMBER <u>SD 6174</u>                    |  |
|------------------------------------------------------------------------------------------------------------|--|------------|--|-------------------------------------------------------------------------|--|-----------------------------------------------|--|
| 1. COMPANY NAME <u>J.T. Corporation</u>                                                                    |  |            |  | 2. DRILL SUBCONTRACTOR <u>Geotechnical</u>                              |  | SHEET <u>1</u> OF <u>2</u>                    |  |
| 3. PROJECT <u>FUSRAP/SOS</u>                                                                               |  |            |  | 4. LOCATION <u>Ph. Rps Service</u>                                      |  |                                               |  |
| 5. NAME OF DRILLER <u>JIM McDONALD</u>                                                                     |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>CME 53</u>                    |  |                                               |  |
| 7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>Hollow Stem Auger</u><br><u>3" Dia. 1' Spacing</u> |  |            |  | 8. HOLE LOCATION <u>CLASS 3</u>                                         |  |                                               |  |
|                                                                                                            |  |            |  | 9. SURFACE ELEVATION                                                    |  |                                               |  |
|                                                                                                            |  |            |  | 10. DATE STARTED <u>11/7/00</u>                                         |  | 11. DATE COMPLETED <u>11/7/00</u>             |  |
| 12. OVERBURDEN THICKNESS                                                                                   |  |            |  | 13. DEPTH GROUNDWATER ENCOUNTERED <u>N/A</u>                            |  |                                               |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                |  |            |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u> |  |                                               |  |
| 14. TOTAL DEPTH OF HOLE                                                                                    |  |            |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u>                 |  |                                               |  |
| 15. GEOTECHNICAL SAMPLES <u>0</u>                                                                          |  | DISTURBED  |  | UNDISTURBED                                                             |  | 18. TOTAL NUMBER OF CORE BOXES                |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                          |  | VOC        |  | METALS                                                                  |  | OTHER (SPECIFY) <u>RAD</u>                    |  |
|                                                                                                            |  |            |  |                                                                         |  | 21. TOTAL CORE RECOVERY                       |  |
| 22. DISPOSITION OF HOLE                                                                                    |  | BACIFILLED |  | MONITORING WELL                                                         |  | 23. SIGNATURE OF INSPECTOR <u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                   |  |            |  |                                                                         |  |                                               |  |
| SCALE:                                                                                                     |  |            |  |                                                                         |  |                                               |  |
|                                                                                                            |  |            |  |                                                                         |  |                                               |  |
| PROJECT <u>FUSRAP/SOS</u>                                                                                  |  |            |  |                                                                         |  | HOLE NO. <u>SD 6174</u>                       |  |



# HTRW DRILLING LOG

| PROJECT     |       | INSPECTOR                                         |                                                                                          | HOLE NUMBER        |                       | SHEET               |                                                                                                |
|-------------|-------|---------------------------------------------------|------------------------------------------------------------------------------------------|--------------------|-----------------------|---------------------|------------------------------------------------------------------------------------------------|
| FLUPAD/SEPS |       | Chris Lock                                        |                                                                                          | SD 6174            |                       | 2 of 2              |                                                                                                |
| DEPTH       | DEPTH | DESCRIPTION OF MATERIALS                          | FIELD SCREENING DATA                                                                     | GEOTECH SAMPLE NO. | ANALYTICAL SAMPLE NO. | REMARKS             |                                                                                                |
| SW          | 1     | SAND, GRAVEL,<br>HARD, LOOSE, Dry, F.S.           | 8400<br>COUNTS<br>NET<br>0.5<br>PPM<br>PDD<br>9200<br>COUNTS<br>NET<br>0.5<br>PPM<br>PDD | 0.5<br>ton/ft      | 3-20<br>6174<br>0937  | 2.0<br>2.0 Recovery |                                                                                                |
| GW          | 2     | SLAG, Cinders<br>BLACK, HARD, LOOSE,<br>Dry, F.S. |                                                                                          |                    |                       |                     |                                                                                                |
| CH          | 2     | FAT clay, HARD, DRUSE<br>Dry.                     |                                                                                          | 5.0<br>ton/ft      | 5-20<br>6198<br>0944  |                     |                                                                                                |
|             | 3     | T.D.                                              | 2.0                                                                                      | 64                 | D950                  | hrs                 | 11/7/00<br>Dura: 2<br>1, 2, 2, 1, 5<br>8100 counts<br>NO Background<br>Bentonite dry<br>for BF |

SD 6174

| HTRW DRILLING LOG                                                                                     |  |            |                                             | DISTRICT <u>St. Louis</u>                                               |  | SLD 6175                          |  |
|-------------------------------------------------------------------------------------------------------|--|------------|---------------------------------------------|-------------------------------------------------------------------------|--|-----------------------------------|--|
| 1. COMPANY NAME <u>IT CORPORATION</u>                                                                 |  |            | 2. DRILL SUBCONTRACTOR <u>Geotechnology</u> |                                                                         |  | SHEET <u>1</u> OF <u>2</u>        |  |
| 3. PROJECT <u>FUGRAP/ SWS</u>                                                                         |  |            |                                             | 4. LOCATION <u>Philips Samia</u>                                        |  |                                   |  |
| 5. NAME OF DRILLER <u>JIM McDANIEL</u>                                                                |  |            |                                             | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>CNF 55</u>                    |  |                                   |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>Hollow Stem Auger</u><br><u>SPRINT SPOON</u> |  |            | 8. HOLE LOCATION <u>CLASS R 3</u>           |                                                                         |  |                                   |  |
| 9. SURFACE ELEVATION                                                                                  |  |            |                                             | 10. DATE STARTED <u>10/3/00</u>                                         |  |                                   |  |
| 11. DATE COMPLETED <u>10/24/00</u>                                                                    |  |            |                                             | 12. OVERBURDEN THICKNESS                                                |  |                                   |  |
| 13. DEPTH DRILLED INTO ROCK                                                                           |  |            |                                             | 14. DEPTH GROUNDWATER ENCOUNTERED <u>N/A</u>                            |  |                                   |  |
| 15. TOTAL DEPTH OF HOLE                                                                               |  |            |                                             | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u> |  |                                   |  |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u>                                               |  |            |                                             | 18. TOTAL NUMBER OF CORE BOXES                                          |  |                                   |  |
| 19. GEOTECHNICAL SAMPLES                                                                              |  | DISTURBED  |                                             | UNDISTURBED                                                             |  | 20. SAMPLES FOR CHEMICAL ANALYSIS |  |
| <u>0</u>                                                                                              |  |            |                                             |                                                                         |  |                                   |  |
| 21. VOC                                                                                               |  | METALS     |                                             | OTHER (SPECIFY) <u>RAO</u>                                              |  | 22. TOTAL CORE RECOVERY           |  |
|                                                                                                       |  |            |                                             |                                                                         |  |                                   |  |
| 23. DISPOSITION OF HOLE                                                                               |  | BACKFILLED |                                             | MONITORING WELL                                                         |  | 24. SIGNATURE OF INSPECTOR        |  |
|                                                                                                       |  |            |                                             |                                                                         |  | <u>[Signature]</u>                |  |
| LOCATION SKETCH/COMMENTS                                                                              |  |            |                                             |                                                                         |  |                                   |  |
| SCALE:                                                                                                |  |            |                                             |                                                                         |  |                                   |  |
|                                                                                                       |  |            |                                             |                                                                         |  |                                   |  |

PROJECT FUGRAP/ SWS  
 IG FORM 5056-R, AUG 94

HTRW 8-00  
 SLD 6175

reproducible: CECW-EG1

# HTRW DRILLING LOG

| PROJECT   |       | INSPECTOR                                           |                                     | SLD 6175              |                               |
|-----------|-------|-----------------------------------------------------|-------------------------------------|-----------------------|-------------------------------|
| FUGRO/SUN |       | Chris Locke                                         |                                     | SHEET 2               |                               |
| BLK. NO.  | DEPTH | DESCRIPTION OF MATERIALS                            | FIELD MEASUREMENTS                  | LABORATORY SAMPLE NO. | ANALYTICAL SAMPLE NO.         |
| 6W        | 1     | Gravel,<br>Brown, HARD, loose,<br>Dry, F&E, Angular | 7300<br>counts<br>NAT               |                       | 540<br>6175<br>1345           |
|           | 2     |                                                     | 6800<br>counts<br>NAT<br>PPM<br>PDD |                       | 540<br>6199<br>1349           |
|           | 3     | TID                                                 | 2.0 ft                              | 1400 hrs              | 10/31/82                      |
|           |       |                                                     |                                     |                       | Drum: 2<br>(p.h. hrs)         |
|           |       |                                                     |                                     |                       | 7000 counts<br>NAT Background |
|           |       |                                                     |                                     |                       | Bentonite core<br>for PF      |

PROJECT FUGRO/SUN

SLD 6175

7000

| HTRW DRILLING LOG                                                                                                   |            | DISTRICT <u>St. Louis</u>                                                  |                                                  | HOLE NUMBER<br><u>SEP 6176</u>       |                 |
|---------------------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------|-----------------|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                            |            | 2. DRILL SUBCONTRACTOR<br><u>Geo Technology</u>                            |                                                  | SHEET <u>1</u> OF <u>2</u>           |                 |
| 3. PROJECT<br><u>FUSRAP/SWS</u>                                                                                     |            | 4. LOCATION<br><u>Ph. Lips Service</u>                                     |                                                  |                                      |                 |
| 5. NAME OF DRILLER<br><u>Jim McQuinn</u>                                                                            |            | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                    |                                                  |                                      |                 |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow 2 1/2" Auger</u><br><u>S.P.D. 1" S.P.D. 1/2"</u> |            | 8. HOLE LOCATION<br><u>CLASS 3</u>                                         |                                                  |                                      |                 |
|                                                                                                                     |            | 9. SURFACE ELEVATION                                                       |                                                  |                                      |                 |
|                                                                                                                     |            | 10. DATE STARTED<br><u>11/7/04</u>                                         |                                                  | 11. DATE COMPLETED<br><u>11/7/04</u> |                 |
| 12. OVERBURDEN THICKNESS                                                                                            |            | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |                                                  |                                      |                 |
| 13. DEPTH DRILLED INTO ROCK                                                                                         |            | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |                                                  |                                      |                 |
| 14. TOTAL DEPTH OF HOLE                                                                                             |            | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |                                                  |                                      |                 |
| 16. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                | DISTURBED  | UNDISTURBED                                                                | 18. TOTAL NUMBER OF CORE BOXES                   |                                      |                 |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                   | VOC        | METALS                                                                     | OTHER (SPECIFY)<br><u>RAD</u>                    | OTHER (SPECIFY)                      | OTHER (SPECIFY) |
| 22. DISPOSITION OF HOLE                                                                                             | BACKFILLED | MONITORING WELL                                                            | OTHER (SPECIFY)                                  | 21. TOTAL CORE RECOVERY              |                 |
|                                                                                                                     |            |                                                                            | 23. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |                                      |                 |
| LOCATION SKETCH/COMMENTS                                                                                            |            |                                                                            | SCALE:                                           |                                      |                 |
|                                                                                                                     |            |                                                                            |                                                  |                                      |                 |
| PROJECT <u>FUSRAP/SWS</u>                                                                                           |            |                                                                            | HOLE NO. <u>SEP 6176</u>                         |                                      |                 |

## HTRW DRILLING LOG

| PROJECT     |            | INSPECTOR                                     |                                       | WELL NUMBER                    |                       |                                                                                                 |
|-------------|------------|-----------------------------------------------|---------------------------------------|--------------------------------|-----------------------|-------------------------------------------------------------------------------------------------|
| FUSRAP/S-12 |            | Chris Lake                                    |                                       | 30 6176                        |                       |                                                                                                 |
| BLK. NO.    | DEPTH (ft) | DESCRIPTION OF MATERIALS (ft)                 | FIELD SCREENING RESULTS (cpm)         | DETECT SAMPLE OR CORE DEN. NO. | ANALYTICAL SAMPLE NO. | REMARKS                                                                                         |
| CL          |            | Silty, lean clay, Brown HARD, LOOSE Dry Fill. | 6700 counts<br>NET<br>0.10 ppm<br>PDD | 1.0<br>ton/ft <sup>2</sup>     | 500<br>6176<br>1114M  | 2.0 Recovery                                                                                    |
| GW          | 1          | Silty, Black HARD<br>Loose, Dry, Fill.        | 6800 counts<br>NET<br>0.10 ppm<br>PDD | 0.5<br>ton/ft <sup>2</sup>     | 300<br>6200<br>1116   |                                                                                                 |
|             | 2          | Fat clay, Brown, HARD                         |                                       |                                |                       |                                                                                                 |
|             | 3          | TID                                           | 2.0 ft                                | 1125                           |                       | h.s 11/76<br>Draw: 2<br>(17m tips)<br>6400 counts NET<br>Background<br>Bentonite chip<br>for Bi |

FUSRAP/S-12

S-12 6176

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |           | DISTRICT <u>St. Louis</u>                                                  |                 |                                      | HOLE NUMBER<br><u>SD 6177</u>                    |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|----------------------------------------------------------------------------|-----------------|--------------------------------------|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |           | 2. DRILL SUBCONTRACTOR<br><u>Geoteknology</u>                              |                 |                                      | SHEET <u>1</u> OF <u>2</u>                       |  |
| 3. PROJECT<br><u>EUSRAP/SDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |           | 4. LOCATION<br><u>Ph. 2-15 S. 10th</u>                                     |                 |                                      |                                                  |  |
| 5. NAME OF DRILLER<br><u>JIM McDONNELL</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |           | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                    |                 |                                      |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Stem Auger</u><br><u>SALT S/W</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |           | 8. HOLE LOCATION<br><u>CLASS 3</u>                                         |                 |                                      |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |           | 9. SURFACE ELEVATION                                                       |                 |                                      |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |           | 10. DATE STARTED<br><u>11/7/00</u>                                         |                 | 11. DATE COMPLETED<br><u>11/7/00</u> |                                                  |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |           | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |                 |                                      |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |           | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |                 |                                      |                                                  |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |           | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |                 |                                      |                                                  |  |
| 16. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | DISTURBED |                                                                            | UNDISTURBED     |                                      | 18. TOTAL NUMBER OF CORE BOXES                   |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | VOC       |                                                                            | METALS          |                                      | OTHER (SPECIFY)<br><u>RAD</u>                    |  |
| 21. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | BACFILLED |                                                                            | MONITORING WELL |                                      | 22. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
| <div style="display: flex; justify-content: space-between;"> <span>LOCATION SKETCH/COMMENTS</span> <span>SCALE:</span> </div> <div style="height: 300px; position: relative;"> <div style="position: absolute; top: 10%; left: 10%; font-size: 2em;">ROAD</div> <div style="position: absolute; top: 10%; left: 30%; font-size: 2em;">ROAD</div> <div style="position: absolute; top: 10%; left: 50%; font-size: 2em;">TRACK</div> <div style="position: absolute; top: 40%; left: 60%;"> <div style="border: 1px solid black; padding: 5px; width: 100px;">             HOIST<br/>OLD<br/>CEMENT<br/>STRUCTURE           </div> <div style="margin-top: 10px;">             50' 6"           </div> <div style="margin-top: 10px;">             NEW<br/>S.D.<br/>6177           </div> <div style="margin-top: 10px;">             OLD<br/>S.D.<br/>6177           </div> </div> <div style="position: absolute; bottom: 10%; left: 10%; font-size: 2em;">ROAD</div> <div style="position: absolute; bottom: 10%; left: 10%; font-size: 2em;">MCKINLEY</div> <div style="position: absolute; bottom: 10%; left: 30%; font-size: 2em;">BRIDGE</div> <div style="position: absolute; bottom: 10%; left: 40%; font-size: 2em;">D. A. [Signature]</div> </div> |  |           |                                                                            |                 |                                      |                                                  |  |
| PROJECT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |           |                                                                            |                 |                                      | HOLE NO. <u>6177</u>                             |  |



# HTRW DRILLING LOG

| PROJECT    |  | INSPECTOR                                                        |                                     | WELL NUMBER           |                                                                                                    |
|------------|--|------------------------------------------------------------------|-------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------|
| FUSRAP/SOS |  | Chris Locke                                                      |                                     | SD 6177               |                                                                                                    |
| DEPTH      |  | DESCRIPTION OF MATERIALS                                         |                                     | ANALYTICAL SAMPLE NO. |                                                                                                    |
| 1          |  | Brick, lean clay<br>wood, red hard,<br>loose, wet (from<br>rain) | 4300<br>counts<br>NAT<br>ppm<br>PID | SD<br>6177<br>133     | 1.5<br>2.0 Recovery                                                                                |
| 2          |  | Brick, lean clay<br>gravel, hard, loose, blue<br>(from rain)     | 4200<br>counts<br>NAT<br>ppm<br>PID | SD<br>6201<br>133     | -                                                                                                  |
| 3          |  | TID 2.0                                                          | 61                                  | 1340                  | NIS                                                                                                |
|            |  |                                                                  |                                     |                       | 11/7/00<br>Drilling<br>(sh. & p.)<br>4400 counts<br>NAT Background<br><br>Bentonite chip<br>for Bf |

FUSRAP/SOS

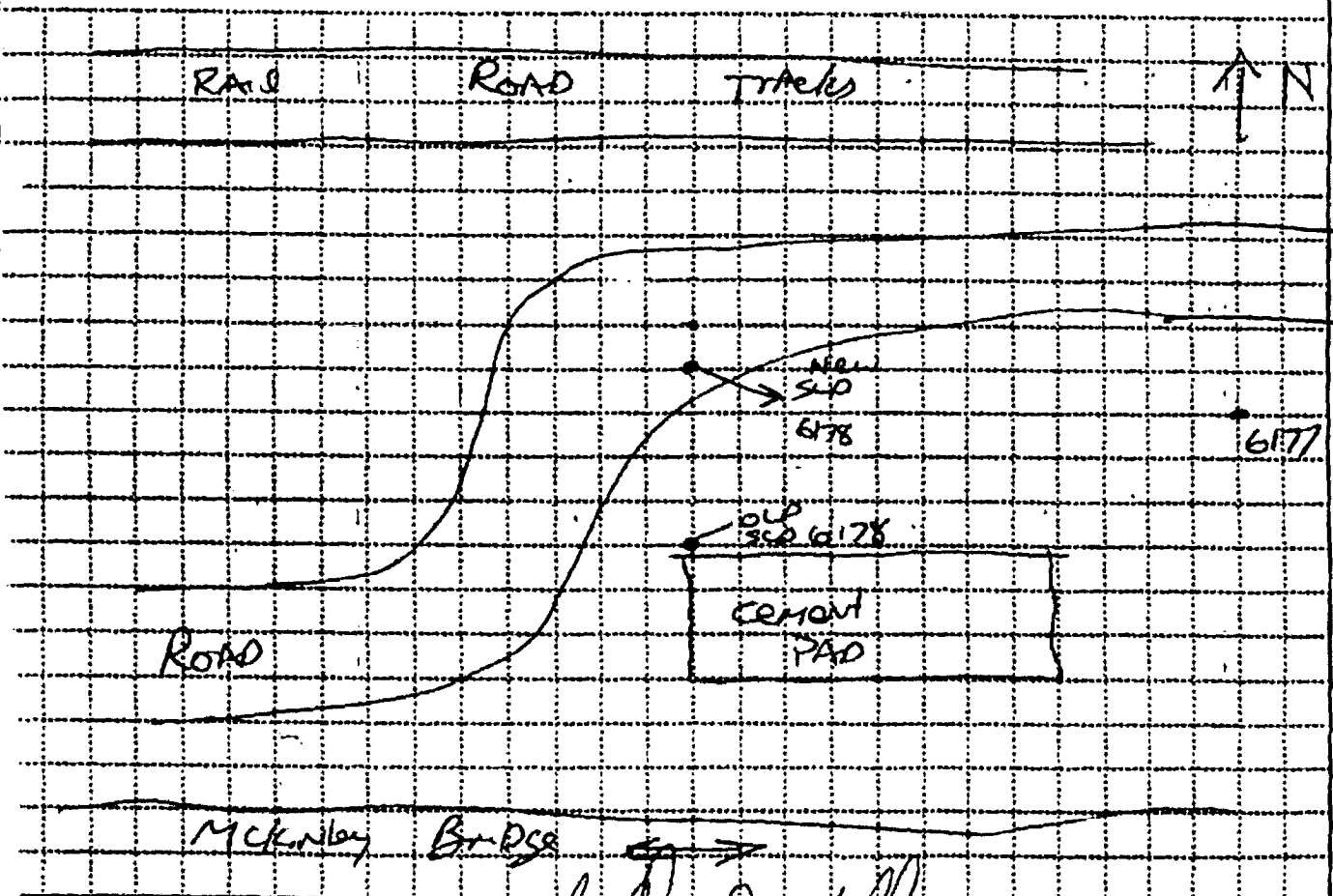
SD 6177

4400

|                                                                                                        |            |                                                                            |                                |                                                  |                 |
|--------------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------|--------------------------------|--------------------------------------------------|-----------------|
| <b>HTRW DRILLING LOG</b>                                                                               |            | DISTRICT <u>St. Louis</u>                                                  |                                | HOLE NUMBER <u>S.D. 6178</u>                     |                 |
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                               |            | 2. DRILL SUBCONTRACTOR<br><u>Geotechnical</u>                              |                                | SHEET <u>1</u> OF <u>2</u>                       |                 |
| 3. PROJECT<br><u>FUSRAP/S.D.S</u>                                                                      |            | 4. LOCATION<br><u>Ph. Rps Services</u>                                     |                                |                                                  |                 |
| 5. NAME OF OPERATOR<br><u>Jim McDonnell</u>                                                            |            | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME</u>                       |                                |                                                  |                 |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>4" Hollow Stem Auger</u><br><u>5200 ft</u> |            | 8. HOLE LOCATION<br><u>CLASS 3</u>                                         |                                |                                                  |                 |
|                                                                                                        |            | 9. SURFACE ELEVATION                                                       |                                |                                                  |                 |
|                                                                                                        |            | 10. DATE STARTED<br><u>11/7/00</u>                                         |                                | 11. DATE COMPLETED<br><u>11/7/00</u>             |                 |
| 12. OVERBURDEN THICKNESS                                                                               |            | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |                                |                                                  |                 |
| 13. DEPTH DRILLED INTO ROCK                                                                            |            | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |                                |                                                  |                 |
| 14. TOTAL DEPTH OF HOLE                                                                                |            | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |                                |                                                  |                 |
| 16. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                   | DISTURBED  | UNDISTURBED                                                                | 17. TOTAL NUMBER OF CORE BOXES |                                                  |                 |
| 18. SAMPLES FOR CHEMICAL ANALYSIS                                                                      | VOC        | METALS                                                                     | OTHER (SPECIFY)<br><u>RAI</u>  | OTHER (SPECIFY)                                  | OTHER (SPECIFY) |
| 19. DISPOSITION OF HOLE                                                                                | BACKFILLED | MONITORING WELL                                                            | OTHER (SPECIFY)                | 20. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |                 |
| 21. TOTAL CORE RECOVERY                                                                                |            |                                                                            |                                |                                                  |                 |

LOCATION SKETCH/COMMENTS

SCALE:



|                             |                    |                           |
|-----------------------------|--------------------|---------------------------|
| PROJECT <u>FUSRAP/S.D.S</u> | <u>[Signature]</u> | HOLE NO. <u>S.D. 6178</u> |
|-----------------------------|--------------------|---------------------------|

# HTRW DRILLING LOG

PROJECT FUSRAP/SUD

INSPECTOR Chris Cook

30 6178

SHEET 2 of 2

| SEC. NO. | DEPTH (ft) | DESCRIPTION OF MATERIALS                                                    | FIELD TECHNIQUE RESULTS                                           | CORRECTION SAMPLE OR CORE NO. NO. | ANALYTICAL SAMPLE NO. | REMARKS                                                                                |
|----------|------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------|-----------------------|----------------------------------------------------------------------------------------|
| GW       | 1          | SMG, GRAVEL, LOAN<br>CLAY, Brown HARD<br>Loose wet (from Rain)<br>WOOD, BRK | 462<br>COUNT<br>NFI<br>0.0<br>PPM<br>P20<br>4500<br>COUNTS<br>NFI | 0.5<br>ton/ppm                    | 500<br>678<br>1443    | 13<br>2.5 Recovery                                                                     |
|          | 2          |                                                                             | P20<br>0.0                                                        |                                   | 6202<br>1445          |                                                                                        |
|          | 3          | T.D.                                                                        | 2.0 ft                                                            | 1455                              | hrs                   | 11/7/00<br>Dm 2<br>Lphard<br>4400 counts<br>NFI Background<br>Bentrite<br>Ch. P for BF |

FUSRAP/SUD

30 6178

|                                                                                                                                                                                                                                                                                                                                                                     |  |                   |  |                                                                         |  |                                    |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------|--|-------------------------------------------------------------------------|--|------------------------------------|--|
| <b>HTRW DRILLING LOG</b>                                                                                                                                                                                                                                                                                                                                            |  |                   |  | PROJECT <u>St. Louis</u>                                                |  | HOLE NUMBER <u>320 6179</u>        |  |
| 1. COMPANY NAME <u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                               |  |                   |  | 2. WELL IDENTIFICATION <u>Geotechnology</u>                             |  | DATE <u>10/10/00</u>               |  |
| 3. PROJECT <u>FuSRAP/SOS</u>                                                                                                                                                                                                                                                                                                                                        |  |                   |  | 4. LOCATION <u>Phillips Services</u>                                    |  | SHEET <u>1</u> OF <u>2</u>         |  |
| 5. NAME OF OWNER <u>Jim McDonald</u>                                                                                                                                                                                                                                                                                                                                |  |                   |  | 6. ANALYST/ENGINEER/GEOLOGIST <u>CME 55</u>                             |  |                                    |  |
| 7. HOLE AND TYPE OF DRILLING AND DRILLING EQUIPMENT <u>Hollow Stem Auger</u><br><u>320 1 3200</u>                                                                                                                                                                                                                                                                   |  |                   |  | 8. HOLE LOCATION                                                        |  |                                    |  |
|                                                                                                                                                                                                                                                                                                                                                                     |  |                   |  | 9. SURFACE ELEVATION                                                    |  |                                    |  |
|                                                                                                                                                                                                                                                                                                                                                                     |  |                   |  | 10. DATE STARTED <u>10/10/00</u>                                        |  | 11. DATE COMPLETED <u>10/10/00</u> |  |
| 12. DRILLER'S SIGNATURE                                                                                                                                                                                                                                                                                                                                             |  |                   |  | 13. DEPTH TO WATER (FEET) <u>N/A</u>                                    |  |                                    |  |
| 14. DEPTH TO BEDROCK (FEET)                                                                                                                                                                                                                                                                                                                                         |  |                   |  | 15. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u> |  |                                    |  |
| 16. TIME, DEPTH, AND HOLE                                                                                                                                                                                                                                                                                                                                           |  |                   |  | 17. OTHER INFORMATION (SPECIFY) <u>N/A</u>                              |  |                                    |  |
| 18. DRILLING EQUIPMENT                                                                                                                                                                                                                                                                                                                                              |  | 19. DRILLING      |  | 20. DRILLING                                                            |  | 21. TOTAL LENGTH OF CORE (FEET)    |  |
| 22. SAMPLE FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                    |  | 23. SAMPLE        |  | 24. SAMPLE                                                              |  | 25. TOTAL CORE RECOVERY            |  |
| 26. DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                   |  | 27. DEPTH OF HOLE |  | 28. DEPTH OF HOLE                                                       |  | 29. DEPTH OF HOLE                  |  |
| LOCATION OR OTHER COMMENTS                                                                                                                                                                                                                                                                                                                                          |  |                   |  | SCALE                                                                   |  |                                    |  |
| <div style="display: flex; justify-content: space-between; padding: 10px;"> <span>Phillips Services Prospect</span> <span>↑ N</span> </div> <div style="text-align: center; margin-top: 50px;"> <u>ROAD</u><br/> <u>1017</u> </div> <div style="display: flex; justify-content: space-around; margin-top: 50px;"> <span>Rockledge</span> <span>Bridge</span> </div> |  |                   |  |                                                                         |  |                                    |  |
| PROJECT <u>FuSRAP/SOS</u>                                                                                                                                                                                                                                                                                                                                           |  |                   |  | HOLE NO. <u>320 6179</u>                                                |  |                                    |  |

# HTRW DRILLING LOG

| FUSRAP/SND |      | Ohio                                                      |                                      | 6179                    |                                                                                       |
|------------|------|-----------------------------------------------------------|--------------------------------------|-------------------------|---------------------------------------------------------------------------------------|
| DATE       | TIME | DESCRIPTION OF MATERIAL                                   | FIELD MEASUREMENTS                   | ANALYTICAL DATA         | REMARKS                                                                               |
| SW         | 1    | SAND, GRAVEL<br>Brown, TAN, HARD<br>Loose, Dry            | 4600<br>COUNTS<br>NAI<br>100M<br>PDP | 5.05<br>1112hr          | 2.0<br>2.0 Recovery                                                                   |
| 60         | 2    | GRAVEL, BRICK, GROUND<br>Brown, HARD, Dense,<br>Dry, R.C. | 4200<br>COUNTS<br>NAI<br>0.5<br>PDP  | 3.00<br>6203<br>1116hrs |                                                                                       |
|            | 3    | T.D.                                                      | 2.0                                  | 1125                    | hrs 10/10/61                                                                          |
|            | 4    |                                                           |                                      |                         | Drum #1<br>(Ph. 11.15)<br>4600 counts<br>NLS BACKGROUND<br>Bentonek Ch. P.<br>for BF. |

4600

FUSRAP/SND

SW 6179

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  | DISTRICT <u>St. Louis</u>                                                  |  |                 | HOLE NUMBER <u>SD 6180</u>           |                                                  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------------------------------------------------------|--|-----------------|--------------------------------------|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  | 2. DRILL SUBCONTRACTOR<br><u>Geoteknology</u>                              |  |                 | SHEET <u>1</u> OF <u>2</u>           |                                                  |  |
| 3. PROJECT<br><u>FUSRAP/SUB</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  | 4. LOCATION<br><u>Phelps Perry</u>                                         |  |                 |                                      |                                                  |  |
| 5. NAME OF DRILLER<br><u>JIN McDONALD</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 23</u>                    |  |                 |                                      |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>1 1/2" 2" Auger</u><br><u>3/4" 3/8" 3/16"</u>                                                                                                                                                                                                                                                                                                                                                                                          |  |  | 8. HOLE LOCATION<br><u>CLASS 3</u>                                         |  |                 |                                      |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  | 9. SURFACE ELEVATION                                                       |  |                 |                                      |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  | 10. DATE STARTED<br><u>11/8/00</u>                                         |  |                 | 11. DATE COMPLETED<br><u>11/8/00</u> |                                                  |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                 |                                      |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                 |                                      |                                                  |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                 |                                      |                                                  |  |
| 16. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  | DISTURBED                                                                  |  | UNDISTURBED     |                                      | 18. TOTAL NUMBER OF CORE BOXES                   |  |
| 19. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  | VOC                                                                        |  | METALS          |                                      | OTHER (SPECIFY)<br><u>RAO</u>                    |  |
| 20. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  | BACKFILLED                                                                 |  | MONITORING WELL |                                      | 21. TOTAL CORE RECOVERY                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |                                                                            |  |                 |                                      | 22. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |                                                                            |  |                 |                                      |                                                  |  |
| SCALE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |                                                                            |  |                 |                                      |                                                  |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; left: 10%;">Bremen</div> <div style="position: absolute; top: 15%; left: 40%;">56</div> <div style="position: absolute; top: 45%; left: 55%;">SD<br/>6180</div> <div style="position: absolute; top: 55%; left: 70%;">Rand<br/>Road<br/>Hydrus</div> <div style="position: absolute; top: 10%; right: 10%; text-align: center;">             ↑ N<br/>             ↓           </div> </div> |  |  |                                                                            |  |                 |                                      |                                                  |  |
| PROJECT <u>FUSRAP/SUB</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |                                                                            |  |                 | HOLE NO. <u>SD 6180</u>              |                                                  |  |



# HTRW DRILLING LOG

| PROJECT    |                                               | INSPECTOR               |                                | WELL NUMBER           |                              |
|------------|-----------------------------------------------|-------------------------|--------------------------------|-----------------------|------------------------------|
| FUSPAD/SOS |                                               | Chris Loch              |                                | S-06180               |                              |
| DEPTH      | DESCRIPTION OF MATERIALS                      | FIELD SCREENING RESULTS | CERTIFIED SAMPLE OR CORE DEPTH | ANALYTICAL SAMPLE NO. | REMARKS                      |
| 6W         | SAND, GRAY, BROWN, HARD, LOOSE, Dry, F. O. L. | 7400 COUNTS, NAT        | 0.5 ton/ft                     | 5001<br>6180<br>1030  | 1.8 / 2.0 Recover            |
| CH         | Fat clay, GRAY, HARD, DENSE, Dry.             | PIP 8100 COUNTS, NAT    |                                |                       |                              |
| CH         | Fat clay (lenticles) white, loose.            | PIP                     |                                | 5002<br>6180<br>1035  | 6.2m                         |
| 2          | T.D                                           | 2.0                     | 6+                             | 1040                  | h/c 11/8/00                  |
| 3          |                                               |                         |                                |                       | Draw: -2<br>(ph. 2.75)       |
|            |                                               |                         |                                |                       | 7200 COUNT<br>NAT Background |
|            |                                               |                         |                                |                       | Bombable Chip<br>for BF      |

FUSPAD/SOS

S-06180

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |  | DISTRICT <u>St Louis</u>                                                |  | HOLE NUMBER <u>540 6181</u>                   |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|-------------------------------------------------------------------------|--|-----------------------------------------------|--|
| 1. COMPANY NAME <u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  | 2. DRILL SUBCONTRACTOR <u>Pro Technology</u>                            |  | SHEET <u>1</u> OF <u>2</u>                    |  |
| 3. PROJECT <u>FUSPAP/SUPS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |            |  | 4. LOCATION <u>PH. 4 ps Services</u>                                    |  |                                               |  |
| 5. NAME OF DRILLER <u>Kevin Bassler</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>CNE 55</u>                    |  |                                               |  |
| 7. SIZE AND TYPE OF DRILLING AND SAMPLING EQUIPMENT <u>Hollow Stem Auger 324+ 3000</u>                                                                                                                                                                                                                                                                                                                                                                                                                |  |            |  | 8. HOLE LOCATION <u>CLASS 3</u>                                         |  |                                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |  | 9. SURFACE ELEVATION                                                    |  |                                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |  | 10. DATE STARTED <u>11/13/00</u>                                        |  | 11. DATE COMPLETED <u>11/13/00</u>            |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |  | 15. DEPTH GROUNDWATER ENCOUNTERED <u>N/A</u>                            |  |                                               |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |            |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u> |  |                                               |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u>                 |  |                                               |  |
| 18. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | DISTURBED  |  | UNDISTURBED                                                             |  | 19. TOTAL NUMBER OF CORE BOXES                |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | VOC        |  | METALS                                                                  |  | OTHER (SPECIFY) <u>PAH</u>                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |  |                                                                         |  | 21. TOTAL CORE RECOVERY                       |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | BACKFILLED |  | MONITORING WELL                                                         |  | 23. SIGNATURE OF INSPECTOR <u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |  |                                                                         |  |                                               |  |
| SCALE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |            |  |                                                                         |  |                                               |  |
| <div style="position: relative; width: 100%; height: 100%;"> <span style="position: absolute; top: 10%; left: 10%;">Breman</span> <span style="position: absolute; top: 10%; left: 45%;">Ar</span> <span style="position: absolute; top: 10%; left: 55%;">←→</span> <span style="position: absolute; top: 10%; left: 80%;">↑ N</span> <div style="position: absolute; bottom: 10%; left: 70%;"> <span style="font-size: 2em;">540</span><br/> <span style="font-size: 2em;">6181</span> </div> </div> |  |            |  |                                                                         |  |                                               |  |
| PROJECT <u>FUSPAP/SUPS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            |  |                                                                         |  |                                               |  |
| HOLE NO. <u>540 6181</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |  |                                                                         |  |                                               |  |

# HTRW DRILLING LOG

| PROJECT <i>FUSRAP/SUBS</i> |            |                                                                      |                                             | INSPECTOR <i>Chris Lock</i>     |                       | HOLE NUMBER <i>SID 6181</i>                                                                         |  |
|----------------------------|------------|----------------------------------------------------------------------|---------------------------------------------|---------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------|--|
| SHEET <i>2</i>             |            |                                                                      |                                             | OF <i>2</i>                     |                       | SHEET <i>2</i>                                                                                      |  |
| BLV. NO.                   | DEPTH (ft) | DESCRIPTION OF MATERIALS                                             | FIELD SCREENING RESULTS                     | DETAILED SAMPLE OR CORE BOX NO. | ANALYTICAL SAMPLE NO. | REMARKS                                                                                             |  |
| GW                         | 1          | GRAVEL, SAND<br>TANISH-BROWN, HARD,<br>LOOSE, Dry, FILL,<br>Angular. | 5400<br>COUNTS<br>NET<br>0.8<br>PPM<br>PISA |                                 | 540<br>6181<br>13011  | 2.0<br>2.0 Row 1                                                                                    |  |
| GW                         | 2          | SILT, BLACK, HARD,<br>LOOSE, Dry, FILL,<br>Angular.                  | 8900<br>COUNTS<br>NET<br>0.8<br>PPM<br>PISA |                                 | 540<br>6205           |                                                                                                     |  |
|                            | 3          | TID 2.0 ft                                                           |                                             | 1315                            | 540                   | 11/13/00<br>Drill. 2<br>(, 2H. L. AS)<br>6000 counts<br>NET Background<br>Bentonite chip<br>for BF. |  |

*1-45RAP/SUBS*

*SID 6181*

*6000*

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |            |                                                | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER<br><u>SD 6182</u>                         |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|------------------------------------------------|----------------------------------------------------------------------------|--|-------------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |            | 2. DRILL SUBCONTRACTOR<br><u>GeoTechnology</u> |                                                                            |  | SHEET <u>2</u> OF <u>2</u>                            |  |
| 3. PROJECT<br><u>FUSRAP/SNS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |                                                | 4. LOCATION<br><u>Ph. Ops Service</u>                                      |  |                                                       |  |
| 5. NAME OF DRILLER<br><u>Kaur Bashe</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            |                                                | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                    |  |                                                       |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Stem Auger</u><br><u>SDH 9/32"</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |                                                | 8. HOLE LOCATION<br><u>CLASS 3</u>                                         |  |                                                       |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |                                                | 9. SURFACE ELEVATION                                                       |  |                                                       |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |                                                | 10. DATE STARTED<br><u>11/19/00</u> <u>11/13/00</u>                        |  | 11. DATE COMPLETED<br><u>11/19/00</u> <u>11/13/00</u> |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |            |                                                | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                                       |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |                                                | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                       |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            |                                                | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                       |  |
| 16. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | DISTURBED  |                                                | UNDISTURBED                                                                |  | 19. TOTAL NUMBER OF CORE BOXES                        |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | VOC        |                                                | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAO</u>                         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |                                                |                                                                            |  | 21. TOTAL CORE RECOVERY                               |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | BACKFILLED |                                                | MONITORING WELL                                                            |  | 23. SIGNATURE OF INSPECTOR<br><u>Uha</u> <u>Shh</u>   |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |            |                                                |                                                                            |  |                                                       |  |
| SCALE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |            |                                                |                                                                            |  |                                                       |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; left: 20%;"><u>Bremen Ave</u></div> <div style="position: absolute; top: 10%; left: 40%;"><u>Ave</u></div> <div style="position: absolute; top: 10%; left: 50%;"><u>←→</u></div> <div style="position: absolute; top: 10%; left: 80%;"><u>↑ N</u></div> <div style="position: absolute; top: 40%; left: 20%;"><u>Ph. Ops Service</u></div> <div style="position: absolute; top: 60%; left: 10%;"> <u>SD</u><br/><u>6182</u> </div> <div style="position: absolute; top: 70%; left: 5%;"> <u>Service</u><br/><u>ROAD</u> </div> <div style="position: absolute; top: 75%; left: 10%;"> <u>↑</u> </div> <div style="position: absolute; top: 80%; left: 20%;"> <u>Buildings</u> </div> </div> |  |            |                                                |                                                                            |  |                                                       |  |
| PROJECT <u>FUSRAP/SNS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |            |                                                |                                                                            |  | HOLE NO. <u>SD 6182</u>                               |  |

# HTRW DRILLING LOG

PROJECT *FUSRAP/SUPC*

INSPECTOR *Chris Lach*

WELL NUMBER *SD 6182*

SHEET *2* OF *2*

| ELEV.<br>100 | DEPTH<br>100 | DESCRIPTION OF MATERIALS<br>100                                          | FIELD SCREENING<br>RESULTS<br>100                     | DESIGN SAMPLE<br>ON CORE DEPTH<br>100 | ANALYTICAL<br>SAMPLE NO.<br>100 | REMARKS<br>100                                                                                              |
|--------------|--------------|--------------------------------------------------------------------------|-------------------------------------------------------|---------------------------------------|---------------------------------|-------------------------------------------------------------------------------------------------------------|
| <i>SW</i>    | <i>1</i>     | <i>SAND, GRAY, SILTY<br/>BROWN, HARD, LOOSE,<br/>dy. fill, irregular</i> | <i>6300<br/>COUNT<br/>NAI<br/>0.5<br/>7PM<br/>PTD</i> | <i>0.5<br/>10/15</i>                  | <i>500<br/>6182<br/>1112</i>    | <i>1.5/2.0 Recovery</i>                                                                                     |
|              | <i>2</i>     |                                                                          | <i>6300<br/>COUNT<br/>NAI<br/>0.5<br/>PTD</i>         |                                       | <i>500<br/>6206<br/>1151</i>    |                                                                                                             |
|              | <i>3</i>     | <i>TID</i>                                                               | <i>2.0 ft</i>                                         | <i>1120</i>                           | <i>hrs</i>                      | <i>11/13/00<br/>Dinner: 2<br/>(7h. 2.0m)<br/>6400 counts<br/>NAI BACKGROUND<br/>Bentley done<br/>for BF</i> |

PROJECT *FUSRAP/SUPC*

WELL NUMBER *SD 6182*

| HTRW DRILLING LOG                                                                                     |  |            |  | DISTRICT <u>St. Louis</u>                                               |  |                                               |  |
|-------------------------------------------------------------------------------------------------------|--|------------|--|-------------------------------------------------------------------------|--|-----------------------------------------------|--|
| 1. COMPANY NAME <u>IT Corporation</u>                                                                 |  |            |  | 2. DRILL SUBCONTRACTOR <u>Geotechnics</u>                               |  |                                               |  |
| 3. PROJECT <u>FUSRAP/SOS</u>                                                                          |  |            |  | 4. LOCATION <u>Ph. 2 PS Service</u>                                     |  |                                               |  |
| 5. NAME OF DRILLER <u>Kavin Bessler</u>                                                               |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>CNE 55</u>                    |  |                                               |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>Hollow Stem Auger</u><br><u>S.O. 1 SQUIN</u> |  |            |  | 8. HOLE LOCATION <u>CLASS DELINEATION</u>                               |  |                                               |  |
|                                                                                                       |  |            |  | 9. SURFACE ELEVATION                                                    |  |                                               |  |
|                                                                                                       |  |            |  | 10. DATE STARTED <u>11/14/00</u>                                        |  | 11. DATE COMPLETED <u>11/14/00</u>            |  |
| 12. OVERBURDEN THICKNESS                                                                              |  |            |  | 13. DEPTH GROUNDWATER ENCOUNTERED <u>N/A</u>                            |  |                                               |  |
| 13. DEPTH DRILLED INTO ROCK                                                                           |  |            |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u> |  |                                               |  |
| 14. TOTAL DEPTH OF HOLE                                                                               |  |            |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u>                 |  |                                               |  |
| 16. GEOTECHNICAL SAMPLES                                                                              |  | DISTURBED  |  | UNDISTURBED                                                             |  | 17. TOTAL NUMBER OF CORE BOXES                |  |
| 18. SAMPLES FOR CHEMICAL ANALYSIS                                                                     |  | VOC        |  | METALS                                                                  |  | OTHER (SPECIFY) <u>RAO</u>                    |  |
| 19. DISPOSITION OF HOLE                                                                               |  | BACOFILLED |  | MONITORING WELL                                                         |  | OTHER (SPECIFY)                               |  |
|                                                                                                       |  |            |  |                                                                         |  | 20. SIGNATURE OF INSPECTOR <u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                              |  |            |  | SCALE:                                                                  |  |                                               |  |
|                                                                                                       |  |            |  |                                                                         |  |                                               |  |
| PROJECT <u>FUSRAP/SOS</u>                                                                             |  |            |  | HOLE NO. <u>500 6212</u>                                                |  |                                               |  |



# HTRW DRILLING LOG

PROJECT *FUSRAP/SWS*

INSPECTOR *Chris Locke*

WELL NUMBER *SD 6212*

SHEET *2* OF *2*

| DEPTH<br>FEET | DEPTH<br>METERS | DESCRIPTION OF MATERIALS<br>NO.                            | FIELD SCREENING<br>RESULTS<br>COUNTS<br>NET<br>PDM<br>PID<br>7100<br>COUNT<br>NET<br>O.D.<br>DEP | HEATED SAMPLE<br>ON CORE DEPT. NO. | ANALYTICAL<br>SAMPLE NO.<br>NO. | REMARKS<br>FT                                                                                 |
|---------------|-----------------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------|
| CL            | 1               | S. & M. LOAN CLAY<br>Brown Green, HARD<br>Loose, Dry, FRI. | 7100<br>COUNTS<br>NET<br>PDM<br>PID<br>7100<br>COUNT<br>NET<br>O.D.<br>DEP                       | 0.5<br>ton/672                     | SD<br>6212<br>1600              | 1.5<br>2.0 Recovery                                                                           |
| CH            | 2               | FAL CLAY,<br>Brown-Green, HARD                             | O.D.<br>DEP                                                                                      | 5.0<br>ton/672                     | SD<br>6237<br>1603              | -                                                                                             |
|               | 3               | TID 2.0 ft                                                 |                                                                                                  | 1610                               | 11/5                            | 11/14/00<br>Drawn: 2<br>(ph. lps)<br>7100 counts<br>NET Background<br>Bottle Check<br>for BF. |

PROJECT *FUSRAP/SWS*

WELL NUMBER *SD 6212*

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                             |                                             | DISTRICT <u>St. Louis</u>                                               |  | HOLE NUMBER <u>RP 6213</u>                          |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------|---------------------------------------------|-------------------------------------------------------------------------|--|-----------------------------------------------------|--|
| 1. COMPANY NAME <u>FT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                             | 2. DRILL SUBCONTRACTOR <u>Geotechnology</u> |                                                                         |  | SHEET <u>1</u> OF <u>2</u>                          |  |
| 3. PROJECT <u>FUSRAP/SUPS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                             |                                             | 4. LOCATION <u>Philips Service</u>                                      |  |                                                     |  |
| 5. NAME OF DRILLER <u>JIM McARDLE</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                             |                                             | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>CME 55</u>                    |  |                                                     |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>Holler 3100 Agit</u><br><u>3port 5000N</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                             | 8. HOLE LOCATION <u>Dellwood</u>            |                                                                         |  |                                                     |  |
| 9. SURFACE ELEVATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                             |                                             | 10. DATE STARTED <u>10/26/20</u>                                        |  |                                                     |  |
| 11. DATE COMPLETED <u>10/26/20</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                             |                                             | 12. OVERBURDEN THICKNESS                                                |  |                                                     |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                             |                                             | 14. DEPTH GROUNDWATER ENCOUNTERED <u>N/A</u>                            |  |                                                     |  |
| 15. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                             |                                             | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u> |  |                                                     |  |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                             |                                             | 18. TOTAL NUMBER OF CORE BOSS                                           |  |                                                     |  |
| 19. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | DISTURBED                                   |                                             | UNDISTURBED                                                             |  | 20. TOTAL NUMBER OF CORE BOSS                       |  |
| 21. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | VOC                                         |                                             | METALS                                                                  |  | OTHER (SPECIFY) <u>PH</u>                           |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | BAGGED                                      |                                             | MONITORING WELL                                                         |  | OTHER (SPECIFY)                                     |  |
| 23. SIGNATURE OF INSPECTOR <u>[Signature]</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | 24. SIGNATURE OF DRILLER <u>[Signature]</u> |                                             | 25. TOTAL CORE RECOVERY                                                 |  | 26. SIGNATURE OF PROJECT MANAGER <u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                             |                                             |                                                                         |  |                                                     |  |
| SCALE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                             |                                             |                                                                         |  |                                                     |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; right: 10%; transform: rotate(90deg);">N</div> <div style="position: absolute; top: 40%; left: 20%;">PHILIPS SERVICE</div> <div style="position: absolute; top: 55%; left: 30%;">BUILDING</div> <div style="position: absolute; top: 75%; left: 20%;">RP</div> <div style="position: absolute; top: 75%; left: 35%;">SPL</div> <div style="position: absolute; top: 75%; left: 38%;">6213</div> <div style="position: absolute; top: 85%; left: 10%;">McARDLE</div> <div style="position: absolute; top: 85%; left: 40%;">Proprietor</div> </div> |  |                                             |                                             |                                                                         |  |                                                     |  |
| PROJECT <u>FUSRAP/SUPS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                             |                                             | HOLE NO. <u>510 6213</u>                                                |  |                                                     |  |

# HTRW DRILLING LOG

| PROJECT    |  | INSPECTOR  |  | HOLE NUMBER                                             |  |
|------------|--|------------|--|---------------------------------------------------------|--|
| FUSRAP/SWS |  | Chris Lock |  | SWS 6213                                                |  |
| SLOT NO    |  | DEPTH (ft) |  | DESCRIPTION OF MATERIALS                                |  |
| GLW        |  | 1          |  | SAND, SAND<br>BROWN, HARD, LOOSE,<br>Dry, FINE, Angular |  |
| SW         |  | 2          |  | SAND, SAND<br>Brown, HARD, LOOSE<br>Dry, FINE, Angular  |  |
|            |  | 3          |  | T.O.D 2.0                                               |  |

4700  
COUNTS  
NAI  
PPM  
RTO  
9400  
COUNTS  
NAI  
PPM  
RTO

0.5  
for 1/2"

SWO  
6213  
1051  
SWO  
6238  
1054M

1.8  
2.0 Recovery

1100 NIS 10/26/00

Draw: 1  
(p.h. tips)  
8000 counts  
NAI Background  
Bentonite Cap.  
for BF

8000

FUSRAP/SWS

SWS 6213

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |  | DISTRICT <u>Sta. Lane</u>                                                 |  | HOLE NUMBER<br><u>SD 6215</u>                    |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|---------------------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  | 2. DRILL SUBCONTRACTOR<br><u>Geotechnology</u>                            |  | SHEET <u>1</u> OF <u>2</u>                       |  |
| 3. PROJECT<br><u>FUSRAP/SDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  | 4. LOCATION<br><u>Philips Service</u>                                     |  |                                                  |  |
| 5. NAME OF DRILLER<br><u>SIM McDONALD</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 53</u>                   |  |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Stem 4" dia</u><br><u>506+ 3/100W</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  | 8. HOLE LOCATION<br><u>Designation</u>                                    |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  | 9. SURFACE ELEVATION                                                      |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  | 10. DATE STARTED<br><u>12/26/66</u>                                       |  | 11. DATE COMPLETED<br><u>12/26/66</u>            |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>NA</u>                            |  |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>NA</u> |  |                                                  |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |            |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>NA</u>                 |  |                                                  |  |
| 18. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | DISTURBED  |  | UNDISTURBED                                                               |  | 19. TOTAL NUMBER OF CORE BOXES                   |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | VOC        |  | METALS                                                                    |  | OTHER (SPECIFY)<br><u>RAO</u>                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  |                                                                           |  | 21. TOTAL CORE RECOVERY                          |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | BACKFILLED |  | MONITORING WELL                                                           |  | 23. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  |                                                                           |  |                                                  |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  |                                                                           |  |                                                  |  |
| SCALE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |            |  |                                                                           |  |                                                  |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; right: 10%; text-align: center;"> <u>N</u><br/>↑ </div> <div style="position: absolute; top: 50%; left: 10%; width: 30%; border: 1px solid black; height: 150px; margin-top: 20px;"> <div style="position: absolute; top: 10%; left: 10%;"><u>Philips Service</u></div> <div style="position: absolute; top: 30%; left: 10%;"><u>Building</u></div> </div> <div style="position: absolute; bottom: 10%; left: 30%; text-align: center;"> <u>2.50' - I - OLD 6215</u><br/> <u>SD 6215</u> </div> <div style="position: absolute; bottom: 10%; left: 10%;"><u>Marked with</u></div> <div style="position: absolute; bottom: 10%; right: 10%;"><u>Proposed</u></div> </div> |  |            |  |                                                                           |  |                                                  |  |
| PROJECT <u>FUSRAP/SDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |  |                                                                           |  | HOLE NO.<br><u>SD 6215</u>                       |  |

# HTRW DRILLING LOG

| PROJECT    |                                                                 | INSPECTOR                        |                                  | SHEET                 |                                                                                    |
|------------|-----------------------------------------------------------------|----------------------------------|----------------------------------|-----------------------|------------------------------------------------------------------------------------|
| FUSRAP/SWS |                                                                 | Chris Lock                       |                                  | 2 of 2                |                                                                                    |
| DEPTH      | DESCRIPTION OF MATERIALS                                        | FIELD SCREENING RESULTS          | CERTIFIED SAMPLE OR CORE BOX NO. | ANALYTICAL SAMPLE NO. | REMARKS                                                                            |
| GW<br>1    | Silt, clay, with s.lg, low clay<br>Brown, HARD, LOOSE, Dry F.A. | 4700 counts<br>NAI<br>PPM<br>P10 | 0.5<br>ton/ft <sup>2</sup>       | 3400<br>6215<br>1314  | 1.5<br>2.0 Recovery                                                                |
|            | Brick                                                           | 8900 counts<br>NAI               |                                  |                       |                                                                                    |
| GW<br>2    | Silt, clay, with s.lg, s.lg, low clay<br>Brown, HARD, LOOSE     | PPM<br>P10                       |                                  | 5400<br>6240<br>1317  | -                                                                                  |
| 3          | T.D.                                                            | 2.0 ft                           | 1325 hrs                         | 10/26/00              | Drum: 1<br>(ph. tape)<br>8100 counts<br>NAI Background<br>Bentonite Chip<br>for BF |

PROJECT FUSRAP/SWS

HOLE NO. 6215

6100

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |            |                                              | DISTRICT <u>St. Louis</u>                                                  |  | SLD 6216                                         |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|----------------------------------------------|----------------------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |            | 2. DRILL SUBCONTRACTOR<br><u>Geofachobay</u> |                                                                            |  | SHEET <u>1</u> OF <u>2</u>                       |  |
| 3. PROJECT<br><u>FUSPAP/SMS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |                                              | 4. LOCATION<br><u>Philips Sinner</u>                                       |  |                                                  |  |
| 5. NAME OF DRILLER<br><u>JIM McDONALD</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |            |                                              | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 5T</u>                    |  |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow 3in Auger</u><br><u>Split 2000'</u>                                                                                                                                                                                                                                                                                                                                                                                                             |  |            |                                              | 8. HOLE LOCATION<br><u>Dedmonator</u>                                      |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |                                              | 9. SURFACE ELEVATION                                                       |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |                                              | 10. DATE STARTED<br><u>11/26/00</u>                                        |  | 11. DATE COMPLETED<br><u>12/26/00</u>            |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |            |                                              | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |                                              | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                  |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            |                                              | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                  |  |
| 16. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | DISTURBED  |                                              | UNDISTURBED                                                                |  | 17. TOTAL NUMBER OF CORE BOXES                   |  |
| 18. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | VOC        |                                              | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAO</u>                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |                                              |                                                                            |  | 19. TOTAL CORE RECOVERY                          |  |
| 20. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | BACKFILLED |                                              | MONITORING WELL                                                            |  | 21. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |                                              |                                                                            |  |                                                  |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |            |                                              |                                                                            |  |                                                  |  |
| SCALE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |            |                                              |                                                                            |  |                                                  |  |
| <div style="position: absolute; top: 10%; right: 10%; text-align: center;"> <u>N</u><br/>↑         </div> <div style="position: absolute; top: 40%; left: 40%;"> <u>206'</u> </div> <div style="position: absolute; top: 55%; left: 60%;"> <u>SUP</u><br/><u>6216</u> </div> <div style="position: absolute; top: 65%; left: 50%;"> <u>SLD 6216</u> </div> <div style="position: absolute; top: 70%; left: 60%;"> <u>WAPP</u> </div> <div style="position: absolute; top: 75%; left: 50%;"> <u>SUP 6217</u> </div> |  |            |                                              |                                                                            |  |                                                  |  |
| PROJECT <u>FUSPAP/SMS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |            |                                              |                                                                            |  | HOLE NO.<br><u>SLD 6216</u>                      |  |



# HTRW DRILLING LOG

| PROJECT     |       | INSPECTOR                                                |                               | WELL NUMBER     |                              |
|-------------|-------|----------------------------------------------------------|-------------------------------|-----------------|------------------------------|
| FUSRAP/SAPS |       | Chris Locke                                              |                               | SAP 6216        |                              |
| DATE        | DEPTH | DESCRIPTION OF MATERIALS                                 | FIELD SCREENING RESULT        | CORE SAMPLE NO. | ANALYTICAL SAMPLE NO.        |
|             |       | Concrete                                                 | 5200 COUNTS NAI               |                 | 3420 6216 (Comp)             |
|             |       |                                                          |                               |                 | 1449                         |
| GW          | 1     | GRAVEL, SAND<br>Brown, Hard, loose<br>Dry, Filt. Angular | 5500 COUNTS NAI<br>PDM<br>PFO |                 | 3420 6216 1456               |
|             | 2     |                                                          | 5800 COUNTS NAI<br>O-V<br>PFO |                 |                              |
|             | 3     | T.D 2.5                                                  | 1510 HIS                      |                 | 10/26/00                     |
|             |       |                                                          |                               |                 | Drum: 1<br>(ph. kps)         |
|             |       |                                                          |                               |                 | 5200 count<br>NAI Background |
|             |       |                                                          |                               |                 | Bentone Chip<br>for BP       |

FUSRAP/SAPS

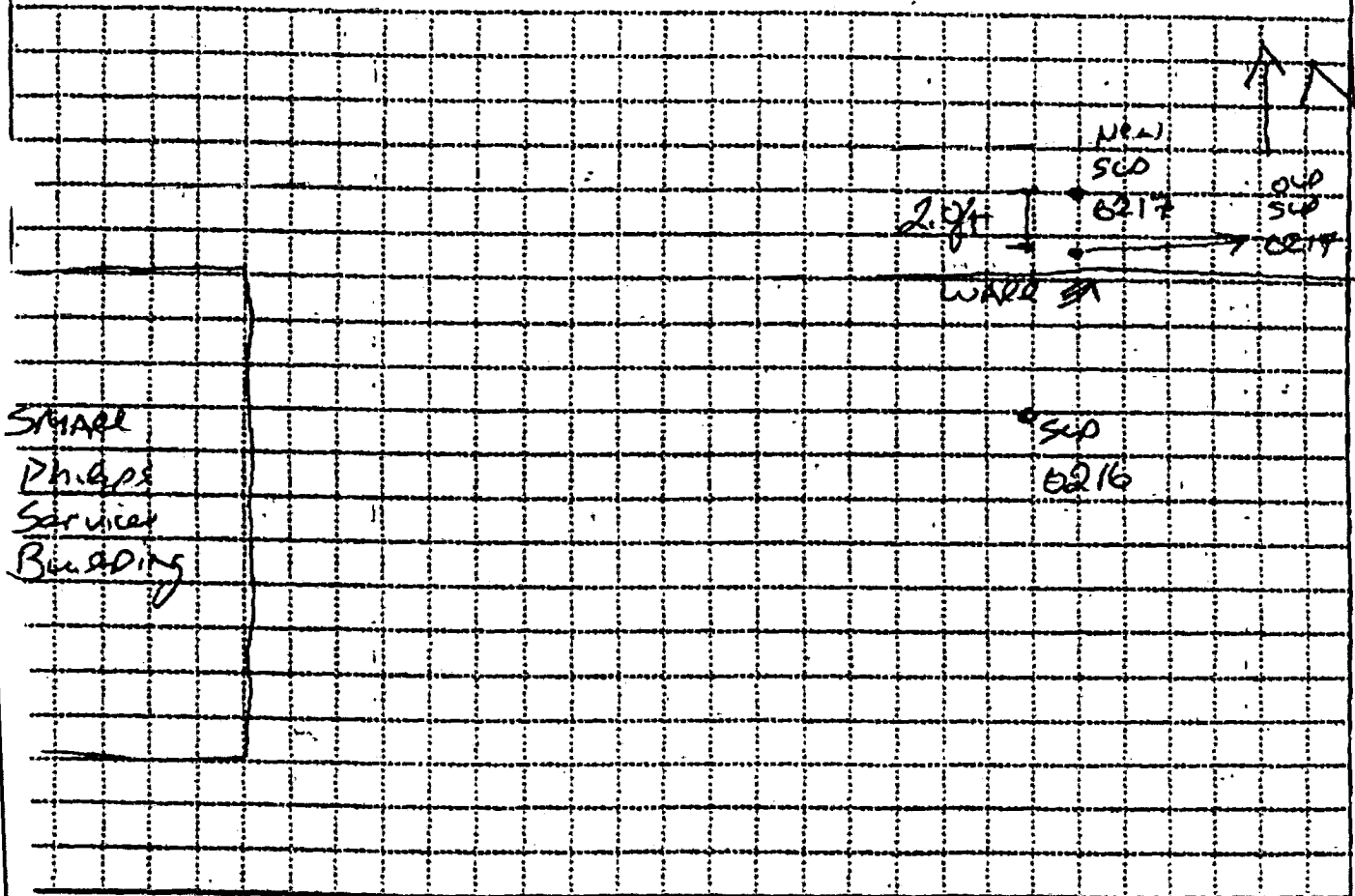
SAP 6216

5200

|                                                                                                      |                |                                                                         |                                                      |                                               |                     |
|------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------|---------------------|
| <b>HTRW DRILLING LOG</b>                                                                             |                | DISTRICT <u>St. Louis</u>                                               |                                                      | HOLE NUMBER <u>540 6217</u>                   |                     |
| 1. COMPANY NAME <u>IT Corporation</u>                                                                |                | 2. DRILL SUBCONTRACTOR <u>Geotechnology</u>                             |                                                      | SHEET <u>1</u> OF <u>2</u>                    |                     |
| 3. PROJECT <u>FUSRAP/sus</u>                                                                         |                |                                                                         | 4. LOCATION <u>Phelps Service</u>                    |                                               |                     |
| 5. NAME OF DRILLER <u>JIM McDONALD</u>                                                               |                |                                                                         | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>CME 55</u> |                                               |                     |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>Hollow Stem Auger</u><br><u>Split Spoon</u> |                | 8. HOLE LOCATION <u>Delineation</u>                                     |                                                      |                                               |                     |
|                                                                                                      |                | 9. SURFACE ELEVATION                                                    |                                                      |                                               |                     |
|                                                                                                      |                | 10. DATE STARTED <u>10/26/02</u>                                        |                                                      | 11. DATE COMPLETED <u>10/26/02</u>            |                     |
| 12. OVERBURDEN THICKNESS                                                                             |                | 13. DEPTH OF GROUNDWATER ENCOUNTERED <u>N/A</u>                         |                                                      |                                               |                     |
| 13. DEPTH DRILLED INTO ROCK                                                                          |                | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u> |                                                      |                                               |                     |
| 14. TOTAL DEPTH OF HOLE                                                                              |                | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u>                 |                                                      |                                               |                     |
| 18. GEOTECHNICAL SAMPLES                                                                             | 19. DISTURBED  | 20. UNDISTURBED                                                         | 21. TOTAL NUMBER OF CORE BOXES                       |                                               |                     |
| 22. SAMPLES FOR CHEMICAL ANALYSIS                                                                    | VOC            | 23. METALS                                                              | 24. OTHER (SPECIFY) <u>RAO</u>                       | 25. OTHER (SPECIFY)                           | 26. OTHER (SPECIFY) |
| 27. DISPOSITION OF HOLE                                                                              | 28. BACKFILLED | 29. MONITORING WELL                                                     | 30. OTHER (SPECIFY)                                  | 31. SIGNATURE OF INSPECTOR <u>[Signature]</u> |                     |

LOCATION SKETCH/COMMENTS

SCALE:



PROJECT FUSRAP/sus  
IG FORM 5058-R, AUG 94

HOLE NO. SUP 6217

(Proponent: CECW-EG)

# HTRW DRILLING LOG

| PROJECT     |       | INSPECTOR                                              |                                                                            | WELL NUMBER                    |                                                                                                 |
|-------------|-------|--------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------|
| FUSRAP/SUDS |       | Chris Lock                                             |                                                                            | SUD 6217                       |                                                                                                 |
| CL          | DEPTH | DESCRIPTION OF MATERIALS                               | FIELD SCREENING RESULTS                                                    | CERTIFIED SAMPLE OR CORE DEPTH | ANALYTICAL SAMPLE NO.                                                                           |
| CL          | 1     | Silty - clay cmy,<br>Brown - HARD, LOOSE,<br>Dry. F.S. | 5200<br>COUNTS<br>NFI<br>D.O<br>PPM<br>5900<br>COUNTS<br>NFI<br>D.O<br>PPM | 0.5<br>m/ft                    | 9400<br>6217<br>0852                                                                            |
|             | 2     |                                                        |                                                                            |                                | 9400<br>6212<br>0855                                                                            |
|             | 3     | T.D                                                    | 2.0                                                                        | 64                             | 0905                                                                                            |
|             |       |                                                        |                                                                            |                                | his 10/26/01<br>Drum: 1<br>(174.5)<br>5800 counts<br>NFI BACKGROUND<br>Bentonite Caps<br>for BF |

115  
2.0 Recovery

Note - petroleum  
hydrocarbon odor  
noted.

5800

FUSRAP/SUDS

SUD 6217

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |  | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER<br><u>SD 6218</u>                    |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|----------------------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  | 2. DRILL SUBCONTRACTOR<br><u>Geotechnology</u>                             |  | SHEET <u>1</u> OF <u>2</u>                       |  |
| 3. PROJECT<br><u>FUSRAP/SDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  | 4. LOCATION<br><u>Ph. Lps Service</u>                                      |  |                                                  |  |
| 5. NAME OF DRILLER<br><u>JIM McANARD</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                    |  |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Holla SP-1 SP-1 SP-1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            |  | 8. HOLE LOCATION<br><u>Delineation</u>                                     |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  | 9. SURFACE ELEVATION                                                       |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  | 10. DATE STARTED<br><u>10/23/00</u>                                        |  | 11. DATE COMPLETED<br><u>10/23/00</u>            |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                                  |  |
| 14. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |  | 15. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                  |  |
| 16. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |            |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                  |  |
| 18. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | DISTURBED  |  | UNDISTURBED                                                                |  | 19. TOTAL NUMBER OF CORE BOXES                   |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | VOC        |  | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAO</u>                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  |                                                                            |  | 21. TOTAL CORE RECOVERY                          |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | BACKFILLED |  | MONITORING WELL                                                            |  | 23. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  | SCALE:                                                                     |  |                                                  |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10px; left: 10px; border: 1px solid black; padding: 5px;"> SMALL<br/>Ph. Lps Service<br/>Building </div> <div style="position: absolute; top: 450px; right: 50px; font-size: 2em;"> ↑ N </div> <div style="position: absolute; top: 700px; left: 450px;">6214</div> <div style="position: absolute; top: 780px; left: 650px;">SD<br/>6218</div> <div style="position: absolute; top: 840px; left: 650px;">RR CME</div> </div> |  |            |  |                                                                            |  |                                                  |  |
| PROJECT <u>FUSRAP/SDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |  | HOLE NO.<br><u>SD 6218</u>                                                 |  |                                                  |  |

# HTRW DRILLING LOG

| PROJECT     |  | INSPECTOR                                                     |  | HOLE NUMBER           |  |
|-------------|--|---------------------------------------------------------------|--|-----------------------|--|
| FUSRAP/Suds |  | Chris Lock                                                    |  | Sud 6218              |  |
| DEPTH       |  | DESCRIPTION OF MATERIALS                                      |  | ANALYTICAL SAMPLE NO. |  |
| FEET        |  | FEET                                                          |  | FEET                  |  |
| 1           |  | Silty - Layer Clay with gravel, Brown - HARD, LOOSE Dry, F.S. |  | SUD 6218 1007         |  |
| 2           |  | Silty, Black, HARD, Dry, F.S.                                 |  | SUD 6218 1007         |  |
| 3           |  | T.D                                                           |  | 1020                  |  |

Recovery  
2.0  
2.0

his 10/23/00  
Drum: 1  
(p h. lps)  
7500 counts  
NEI Background  
Bentonite chip  
for BF.

FUSRAP/Suds

Sud 6218

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |  | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER<br><u>SD 6219</u>                 |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|----------------------------------------------------------------------------|--|-----------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  | 2. DRILL SUBCONTRACTOR<br><u>Geotechnology</u>                             |  | SHEET <u>1</u> OF <u>2</u>                    |  |
| 3. PROJECT<br><u>FUSRAP/SDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  | 4. LOCATION<br><u>Philips Service</u>                                      |  |                                               |  |
| 5. NAME OF DRILLER<br><u>JIM McDINALE</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 53</u>                    |  |                                               |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow 2 1/2" Auger</u><br><u>SPRT SPDR</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |            |  | 8. HOLE LOCATION<br><u>DOR, N. A. 1300</u>                                 |  |                                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  | 9. SURFACE ELEVATION                                                       |  |                                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  | 10. DATE STARTED<br><u>10/26/00</u>                                        |  | 11. DATE COMPLETED<br><u>10/26/00</u>         |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                               |  |
| 12. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |  | 15. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                               |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |            |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                               |  |
| 18. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | DISTURBED  |  | UNDISTURBED                                                                |  | 19. TOTAL NUMBER OF CORE BOXES                |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | VOC        |  | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAD</u>                 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  |                                                                            |  | 21. TOTAL CORE RECOVERY                       |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | BACOFILLED |  | MONITORING WELL                                                            |  | 23. SIGNATURE OF INSPECTOR<br><u>Mr. Tuck</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  |                                                                            |  |                                               |  |
| SCALE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |            |  |                                                                            |  |                                               |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; right: 10%; text-align: center;"> </div> <div style="position: absolute; top: 40%; left: 40%;"> <u>SD</u><br/><u>6219</u> </div> <div style="position: absolute; top: 70%; left: 20%;"> <u>RR</u> </div> <div style="position: absolute; top: 70%; left: 40%;"> <u>SPUR</u> </div> <div style="position: absolute; top: 80%; left: 20%;"> <u>MADE GROUND</u> </div> <div style="position: absolute; top: 80%; left: 55%;"> <u>Property</u> </div> </div> |  |            |  |                                                                            |  |                                               |  |
| PROJECT <u>FUSRAP/SDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |  |                                                                            |  | HOLE NO.<br><u>SD 6219</u>                    |  |



| HTRW DRILLING LOG         |               |                                                                            |                                                        |                                    |                               |                                                                                                              |
|---------------------------|---------------|----------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------|
| PROJECT <i>FUSRAP/SWS</i> |               |                                                                            | INSPECTOR <i>Chris Locke</i>                           |                                    |                               | WELL NUMBER<br><i>540 6219</i>                                                                               |
|                           |               |                                                                            |                                                        |                                    |                               | DATE<br><i>2-2</i>                                                                                           |
| ELEV.<br>FEET             | DEPTH<br>FEET | DESCRIPTION OF MATERIALS<br>FACIES                                         | FIELD SCREENING<br>RESULTS<br>COUNTS                   | CERTIFIED SAMPLE<br>OF CORE OR NO. | ANALYTICAL<br>SAMPLE NO.      | REMARKS                                                                                                      |
| <i>GW</i>                 | <i>1</i>      | <i>GRAVEL, SAND,<br/>(Limestone),<br/>TAN, HARD, LOOSE,<br/>Dry, FILL.</i> | <i>5400<br/>counts<br/>NET<br/>0.5<br/>PDM<br/>PTD</i> | <i>0.5<br/>ton/ft</i>              | <i>5400<br/>6219<br/>0926</i> | <i>1.5<br/>2nd Recovery</i>                                                                                  |
|                           |               | <i>Limestone</i>                                                           | <i>6400<br/>counts<br/>M<br/>610<br/>PDM</i>           |                                    | <i>5400<br/>6240<br/>0929</i> |                                                                                                              |
| <i>GW</i>                 | <i>2</i>      | <i>slay, cinders<br/>Black, HARD, LOOSE,<br/>Dry</i>                       |                                                        |                                    |                               |                                                                                                              |
|                           | <i>3</i>      | <i>T.D</i>                                                                 | <i>2.0</i>                                             | <i>6ft</i>                         | <i>0940</i>                   | <i>his 10/26/0<br/>Drill:<br/>(ph. tips)<br/>5800 counts<br/>NET Background<br/>Bentonite cap<br/>for BF</i> |

*FUSRAP/SWS*

*540 6219*

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  | DISTRICT <u>St. Louis</u>                                               |  | HOLE NUMBER <u>720 6220</u>                   |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|-------------------------------------------------------------------------|--|-----------------------------------------------|--|
| 1. COMPANY NAME <u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |  | 2. DRILL SUBCONTRACTOR <u>Geotechnology</u>                             |  | SHEET <u>1</u> OF <u>2</u>                    |  |
| 3. PROJECT <u>FUSRAP/SWS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |            |  | 4. LOCATION <u>Philips Service</u>                                      |  |                                               |  |
| 5. NAME OF DRILLER <u>JM McDONARD</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>CRT 55</u>                    |  |                                               |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>Hollow Stem Auger</u><br><u>30cm 30cm</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |  | 8. HOLE LOCATION <u>Delineation</u>                                     |  |                                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |            |  | 9. SURFACE ELEVATION                                                    |  |                                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |            |  | 10. DATE STARTED <u>10/26/62</u>                                        |  | 11. DATE COMPLETED <u>10/26/62</u>            |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  | 13. DEPTH GROUNDWATER ENCOUNTERED <u>N/A</u>                            |  |                                               |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u> |  |                                               |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |            |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u>                 |  |                                               |  |
| 16. GEOTECHNICAL SAMPLES <u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | DISTURBED  |  | UNDISTURBED                                                             |  | 18. TOTAL NUMBER OF CORE BOXES                |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | VOC        |  | METALS                                                                  |  | OTHER (SPECIFY) <u>RAD</u>                    |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | BAG FILLED |  | MONITORING WELL                                                         |  | 21. SIGNATURE OF INSPECTOR <u>[Signature]</u> |  |
| <div style="display: flex; justify-content: space-between;"> <span>LOCATION SKETCH/COMMENTS</span> <span>SCALE:</span> </div> <div style="height: 300px; border: 1px dashed black; position: relative; margin-top: 10px;"> <div style="position: absolute; top: 10%; left: 20%; font-size: 2em;">Philips</div> <div style="position: absolute; top: 10%; left: 45%; font-size: 2em;">Service</div> <div style="position: absolute; top: 10%; left: 60%; font-size: 2em;">Property</div> <div style="position: absolute; top: 10%; right: 10%; text-align: center;"> <div style="font-size: 2em;">↑</div> <div style="font-size: 1.5em;">N</div> </div> <div style="position: absolute; bottom: 10%; left: 15%; font-size: 1.5em;">R/G</div> <div style="position: absolute; bottom: 10%; left: 30%; font-size: 1.5em;">SPUR</div> <div style="position: absolute; bottom: 10%; left: 45%; font-size: 1.5em;">R/W</div> <div style="position: absolute; bottom: 10%; left: 60%; font-size: 1.5em;">SPUR</div> <div style="position: absolute; bottom: 10%; left: 15%; font-size: 1.5em;">McDonnell</div> <div style="position: absolute; bottom: 10%; left: 45%; font-size: 1.5em;">Property</div> </div> |  |            |  |                                                                         |  |                                               |  |

PROJECT FUSRAP/SWS

HOLE NO. 720 6220

# HTRW DRILLING LOG

| PROJECT     |                                              | INSPECTOR                           |                                 | HOLE NUMBER           |                                                                                               |
|-------------|----------------------------------------------|-------------------------------------|---------------------------------|-----------------------|-----------------------------------------------------------------------------------------------|
| FUSRAP/SIDS |                                              | Chris Locky                         |                                 | SHP 6220              |                                                                                               |
| DEPTH       | DESCRIPTION OF MATERIALS                     | FIELD SCREENING ACTIVITY            | DETERMINED SAMPLE OR CORE DEPTH | ANALYTICAL SAMPLE NO. | REMARKS                                                                                       |
| 1           | SLAG, BLACK, HARD, LOOSE, Dry, FINE, Angular | 8500 counts<br>NAI<br>0.5 ppm<br>Pb | 0.5 ton/ore                     | SHP 6220<br>1411      | 20<br>2.0 Recovery                                                                            |
| 2           | Silty LOAM CLAY<br>Brown HARD LOOSE, Dry     | 9400 counts<br>NAI<br>0.5 ppm<br>Pb |                                 | 6245<br>1415          |                                                                                               |
| 3           | T.D 20 ft                                    |                                     |                                 | hrs                   | 10/2600<br>Drum!<br>(ph. hrs)<br><br>8100 counts<br>NAI Background<br>Conbrite chs<br>for BF. |

PROJECT FUSRAP/SIDS

HOLE NO. SHP 6220

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |  | DISTRICT <u>52. Louis</u>                                              |  | HOLE NUMBER <u>540 6221</u>                   |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|------------------------------------------------------------------------|--|-----------------------------------------------|--|
| 1. COMPANY NAME <u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |  | 2. DRILL SUBCONTRACTOR <u>Geotechnology</u>                            |  | SHEET <u>1</u> OF <u>2</u>                    |  |
| 3. PROJECT <u>FUSRAP/SWS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |            |  | 4. LOCATION <u>Phelps Service</u>                                      |  |                                               |  |
| 5. NAME OF DRILLER <u>Jim McDonald</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>CHE 55</u>                   |  |                                               |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>Hollow Stem Auger</u><br><u>30" 1 9/16" 9' 0"</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |  | 8. HOLE LOCATION <u>Class 1 - Admin</u>                                |  |                                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |            |  | 9. SURFACE ELEVATION                                                   |  |                                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |            |  | 10. DATE STARTED <u>10/17/00</u>                                       |  | 11. DATE COMPLETED <u>10/17/00</u>            |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  | 13. DEPTH GROUNDWATER ENCOUNTERED <u>N/A</u>                           |  |                                               |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>2A</u> |  |                                               |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |            |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u>                |  |                                               |  |
| 18. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | DISTURBED  |  | UNDISTURBED                                                            |  | 19. TOTAL NUMBER OF CORE BOXES                |  |
| <u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  | <u>-</u>                                                               |  |                                               |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | VOC        |  | METALS                                                                 |  | OTHER (SPECIFY) <u>RAD</u>                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |            |  |                                                                        |  | 21. TOTAL CORE RECOVERY                       |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | BACKFILLED |  | MONITORING WELL                                                        |  | 23. SIGNATURE OF INSPECTOR <u>[Signature]</u> |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |            |  |                                                                        |  |                                               |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  |                                                                        |  |                                               |  |
| SCALE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |            |  |                                                                        |  |                                               |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; right: 10%; text-align: center;"> <u>N</u><br/>↑ </div> <div style="position: absolute; top: 40%; left: 30%; border: 1px solid black; padding: 10px; width: 20%;"> <u>Building</u> </div> <div style="position: absolute; top: 60%; left: 50%; transform: translate(-50%, -50%);"> <u>150'</u><br/> <u>50'</u><br/> <u>6221</u> </div> <div style="position: absolute; top: 70%; left: 60%;"> <u>New SWS 6221</u> </div> <div style="position: absolute; top: 80%; left: 20%;"> <u>MA Electric 29</u> </div> <div style="position: absolute; top: 80%; left: 50%;"> <u>Property</u> </div> </div> |  |            |  |                                                                        |  |                                               |  |
| ECT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |            |  |                                                                        |  | HOLE NO. <u>540 6221</u>                      |  |

| HTRW DRILLING LOG      |              |                                                                   |                                     |                                            |                                 | WELL NUMBER<br>30 6221                                                                         |
|------------------------|--------------|-------------------------------------------------------------------|-------------------------------------|--------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------------|
| PROJECT<br>FUSRAP/SUDS |              | INSPECTOR<br>Chris Lock                                           |                                     |                                            | SHEET<br>2 OF 2                 |                                                                                                |
| SLAT<br>NO.            | DEPTH<br>FT. | DESCRIPTION OF MATERIALS<br>NO.                                   | FIELD SCREENING<br>RESULTS<br>NO.   | DETECTION SAMPLE<br>OR CORE SEE NO.<br>NO. | ANALYTICAL<br>SAMPLE NO.<br>NO. | REMARKS<br>NO.                                                                                 |
| 1                      |              | SLT low clay<br>with slag<br>Black, hard, loose<br>wet (from RAW) | 5800<br>counts<br>NIT<br>O-3<br>PID |                                            | 2401<br>6221<br>0942            | 1.5 / 20 Recovery<br>Strong odor<br>w/air                                                      |
| 2                      |              |                                                                   |                                     |                                            | 2402<br>6246<br>0945            |                                                                                                |
| 3                      |              | T.D. 20 ft.                                                       |                                     | 0950                                       | hrs                             | 10/17/00<br>Drum: 4<br>(philips)<br>6400 counts<br>NIT Background<br>Bentonite chip<br>for BF. |

FUSRAP/SUDS

30 6221

| HTRW DRILLING LOG                                                                                                                                     |  | DISTRICT <u>St. Louis</u>                                                                                                                                                                       | HOLE NUMBER<br><u>540 6222</u> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                              |  | 2. DRILL SUBCONTRACTOR<br><u>Geotechnics</u>                                                                                                                                                    |                                |
| 3. PROJECT<br><u>FUSAP/SAP</u>                                                                                                                        |  | 4. LOCATION<br><u>Philips Saver</u>                                                                                                                                                             |                                |
| 5. NAME OF DRILLER<br><u>Mr. McDONALD</u>                                                                                                             |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CHE 55</u>                                                                                                                                         |                                |
| 7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Stem Auger<br/>30" dia 3000'</u>                                                    |  | 8. HOLE LOCATION<br><u>Dalmanator</u>                                                                                                                                                           |                                |
| 9. SURFACE ELEVATION                                                                                                                                  |  | 10. DATE STARTED<br><u>10/30/04</u>                                                                                                                                                             |                                |
| 11. DATE COMPLETED<br><u>10/30/04</u>                                                                                                                 |  | 12. OVERBURDEN THICKNESS                                                                                                                                                                        |                                |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                           |  | 14. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                                                                                                                                                 |                                |
| 15. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u>                                                                            |  | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                                                                                                                                      |                                |
| 17. TOTAL DEPTH OF HOLE                                                                                                                               |  | 18. TOTAL NUMBER OF CORE BOXES                                                                                                                                                                  |                                |
| 19. GEOTECHNICAL SAMPLES                                                                                                                              |  | 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                               |                                |
| <div style="display: flex; justify-content: space-between;"> <span>20. DISTURBED</span> <span>20. UNDISTURBED</span> </div>                           |  | <div style="display: flex; justify-content: space-between;"> <span>VOC</span> <span>METALS</span> <span>OTHER (SPECIFY)</span> <span>OTHER (SPECIFY)</span> <span>OTHER (SPECIFY)</span> </div> |                                |
| 21. DEPOSITION OF HOLE                                                                                                                                |  | 22. SIGNATURE OF INSPECTOR                                                                                                                                                                      |                                |
| <div style="display: flex; justify-content: space-between;"> <span>BACKFILLED</span> <span>MONITORING WELL</span> <span>OTHER (SPECIFY)</span> </div> |  | <div style="display: flex; justify-content: space-between;"> <span>21. TOTAL CORE RECOVERY</span> <span>22. SIGNATURE OF INSPECTOR</span> </div>                                                |                                |
| <div style="display: flex; justify-content: space-between;"> <span>LOCATION SKETCH/COMMENTS</span> <span>SCALE:</span> </div>                         |  |                                                                                                                                                                                                 |                                |
|                                                                                                                                                       |  |                                                                                                                                                                                                 |                                |
| PROJECT<br><u>FUSAP/SAP</u>                                                                                                                           |  | HOLE NO.<br><u>540 6222</u>                                                                                                                                                                     |                                |



# HTRW DRILLING LOG

PROJECT *FUSRAP/SUP*

INSPECTOR *Chris Lock*

SHEET NUMBER *30 6222*  
SHEET *2* OF *2*

| ACT. IN      | DEPTH IN | DESCRIPTION OF MATERIALS                                   | FIELD SCREENING RESULTS                        | DELETED SAMPLE OR CORE BOX NO. | ANALYTICAL SAMPLE NO. | REMARKS                                                                                                                                          |
|--------------|----------|------------------------------------------------------------|------------------------------------------------|--------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>5m GN</i> | <i>1</i> | <i>SAND, GRAVEL, BROWN, HARD, LOOSE, Dry, Full Angular</i> | <i>5701 COUNTS NET 0.3 PIA 5900 COUNTS NET</i> | <i>0.5 ton/ft</i>              | <i>5000 6222 M06</i>  | <i>1.0 / 2.0 Recover</i>                                                                                                                         |
|              | <i>2</i> |                                                            |                                                |                                | <i>5000 6247 M10</i>  |                                                                                                                                                  |
|              | <i>3</i> |                                                            | <i>T.D.</i>                                    | <i>14.0" 14.5 hrs</i>          |                       | <i>10/30/00</i><br><i>Drum: 1 (p.h. 1.0s)</i><br><i>5900 counts NET Background</i><br><i>Bentank cap for B.F.</i><br><i>T.D. Due to Refusal.</i> |

PROJECT *FUSRAP/SUP*

SHEET *30 6222*

*5900*

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                     |  |            |                                               | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER <u>SD 6223</u>                       |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|-----------------------------------------------|----------------------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>FT Corporation</u>                                                                                                                                                                                                                                                              |  |            | 2. DRILL SUBCONTRACTOR<br><u>Geotechnical</u> |                                                                            |  | SHEET <u>1</u> OF <u>2</u>                       |  |
| 3. PROJECT<br><u>FUSRAP/SDS</u>                                                                                                                                                                                                                                                                       |  |            |                                               | 4. LOCATION<br><u>Phelps Survey</u>                                        |  |                                                  |  |
| 5. NAME OF DRILLER<br><u>Jim McDONNELL</u>                                                                                                                                                                                                                                                            |  |            |                                               | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                    |  |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>1600 3/4" Aggr</u><br><u>2 1/2" 3/4"</u>                                                                                                                                                                                                  |  |            |                                               | 8. HOLE LOCATION<br><u>Class 1 - D4in</u>                                  |  |                                                  |  |
| 9. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                               |  |            |                                               | 10. DATE STARTED<br><u>10/17/00</u>                                        |  |                                                  |  |
| 11. DATE COMPLETED<br><u>10/17/00</u>                                                                                                                                                                                                                                                                 |  |            |                                               | 12. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                           |  |            |                                               | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                  |  |
| 15. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                               |  |            |                                               | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                  |  |
| 17. GEOTECHNICAL SAMPLES<br><u>D</u>                                                                                                                                                                                                                                                                  |  | DISTURBED  |                                               | UNDISTURBED                                                                |  | 18. TOTAL NUMBER OF CORE BOXES                   |  |
| 19. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                     |  | VOC        |                                               | METALS                                                                     |  | OTHER (SPECIFY)<br><u>PAD</u>                    |  |
| 20. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                               |  | BACKFILLED |                                               | MONITORING WELL                                                            |  | 21. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
| 22. LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                          |  |            |                                               | SCALE:                                                                     |  |                                                  |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10px; right: 10px; text-align: right;"> <u>SD 6223</u> </div> <div style="position: absolute; bottom: 10px; left: 10px;"> <p><u>RA Tracks</u></p> <p><u>Mallin Creek Property</u></p> </div> </div> |  |            |                                               |                                                                            |  |                                                  |  |
| PROJECT <u>FUSRAP/SDS</u>                                                                                                                                                                                                                                                                             |  |            |                                               | HOLE NO. <u>SD 6223</u>                                                    |  |                                                  |  |

| HTRW DRILLING LOG      |            |                                                                     |                                      |                                 |                          | WELL NUMBER<br>SND 6223                                                           |
|------------------------|------------|---------------------------------------------------------------------|--------------------------------------|---------------------------------|--------------------------|-----------------------------------------------------------------------------------|
| PROJECT<br>F4SRAP/S4DS |            | INSPECTOR<br>Chris Lake                                             |                                      |                                 | SHEET<br># 2 of 2        |                                                                                   |
| DEPTH<br>FT            | DEPTH<br>M | DESCRIPTION OF MATERIALS<br>FACIES                                  | FIELD SCREENING<br>RESULTS<br>COUNTS | CORRECTION<br>OR CORN. COR. NO. | ANALYTICAL<br>SAMPLE NO. | REMARKS                                                                           |
| 1                      |            | silty tan clay<br>with 3mg<br>brown, hard, loose<br>wet (from rain) | 6200<br>counts<br>NET<br>0.0<br>PSP  | 0.5<br>tor/hr                   | SND<br>6223<br>1006      | 1.8/<br>20 Recovery                                                               |
| 2                      |            |                                                                     | 6300<br>counts<br>NET<br>0.0<br>PSP  |                                 | SND<br>6223<br>1010 hr   |                                                                                   |
| 3                      |            | TID 2.061                                                           |                                      | 1015 hr                         | 10/17/00                 | Drum: 1<br>(p.h.lps)<br>6400 counts<br>NET BACKGROUND<br>Bentonic chip<br>for BE. |

PROJECT  
F4SRAP/S4DS

WELL NUMBER  
SND 6223

|                                                                                           |            |                                                                         |                                |                                               |                         |
|-------------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------|--------------------------------|-----------------------------------------------|-------------------------|
| <b>HTRW DRILLING LOG</b>                                                                  |            | DISTRICT <u>St. Louis</u>                                               |                                | HOLE NUMBER <u>SLD 6224</u>                   |                         |
| 1. COMPANY NAME <u>IT Corporation</u>                                                     |            | 2. DRILL SUBCONTRACTOR <u>Geotechnologs</u>                             |                                | SHEET <u>1</u> OF <u>2</u>                    |                         |
| 3. PROJECT <u>FUSRAP/SLD</u>                                                              |            | 4. LOCATION <u>Ph. D. ps Service</u>                                    |                                |                                               |                         |
| 5. NAME OF DRILLER <u>JIM McDONNELL</u>                                                   |            | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>CME 55</u>                    |                                |                                               |                         |
| 7. SIZE AND TYPE OF DRILLING AND SAMPLING EQUIPMENT <u>Hand auger</u><br><u>30" x 30"</u> |            | 8. HOLE LOCATION <u>Delineation</u>                                     |                                |                                               |                         |
|                                                                                           |            | 9. SURFACE ELEVATION                                                    |                                |                                               |                         |
|                                                                                           |            | 10. DATE STARTED <u>10/19/00</u>                                        |                                | 11. DATE COMPLETED <u>10/19/00</u>            |                         |
| 12. OVERBURDEN THICKNESS                                                                  |            | 13. DEPTH OF UNDERWATER ENCOUNTERED <u>N/A</u>                          |                                |                                               |                         |
| 13. DEPTH DRILLED INTO ROCK                                                               |            | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u> |                                |                                               |                         |
| 14. TOTAL DEPTH OF HOLE                                                                   |            | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u>                 |                                |                                               |                         |
| 16. GEOTECHNICAL SAMPLES                                                                  | DISTURBED  | UNDISTURBED                                                             | 17. TOTAL NUMBER OF CORE SIZES |                                               |                         |
| <u>0</u>                                                                                  |            |                                                                         |                                |                                               |                         |
| 18. SAMPLES FOR CHEMICAL ANALYSIS                                                         | VOC        | METALS                                                                  | OTHER (SPECIFY) <u>RAO</u>     | OTHER (SPECIFY)                               | OTHER (SPECIFY)         |
|                                                                                           |            |                                                                         |                                |                                               | 19. TOTAL CORE RECOVERY |
| 20. DISPOSITION OF HOLE                                                                   | BACKFILLED | MONITORING WELL                                                         | OTHER (SPECIFY)                | 21. SIGNATURE OF INSPECTOR <u>[Signature]</u> |                         |

LOCATION SKETCH/COMMENTS

SCALE:

Ph. D. ps Service Property ↑ N

SLD 6224

RAIL ROAD

SLD 6226

MA McDONNELL Property

|                           |                          |
|---------------------------|--------------------------|
| PROJECT <u>FUSRAP/SLD</u> | HOLE NO. <u>SLD 6224</u> |
|---------------------------|--------------------------|

IG FORM 5056-R, AUG 94

(Proponent: CECW-E3)

# HTRW DRILLING LOG

| PROJECT    |   | INSPECTOR                                                   |  | WELL NUMBER              |  |
|------------|---|-------------------------------------------------------------|--|--------------------------|--|
| FUSRAP/SWS |   | Chris Lock                                                  |  | S.D. 6224                |  |
| DEPTH      |   | DESCRIPTION OF MATERIALS                                    |  | ANALYTICAL SAMPLE NO.    |  |
| 10         |   | 100                                                         |  | 100                      |  |
| GW         | 1 | SANDY - GRAY, BROWN - BLACK, HARD, LOOSE, Dry, FINE, ARGENT |  | 6700 Counts, NFI 8PM PSD |  |
|            | 2 | Limestone, Tan, HARD, DENSE, Dry                            |  | 7600 Counts, NFI 8PM PSD |  |
| Rock       | 3 | TID                                                         |  | 2.0 ft                   |  |
|            | 4 |                                                             |  | 1340 hrs                 |  |
|            |   |                                                             |  | 10/19/00                 |  |
|            |   |                                                             |  | Drum: 1 (ph. lens)       |  |
|            |   |                                                             |  | 6400 counts              |  |
|            |   |                                                             |  | NFI Background           |  |
|            |   |                                                             |  | Bentonite Chips for BF   |  |

1.5 / 2.0 Recovery

6400

FUSRAP/SWS

S.D. 6224

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |                                             | DISTRICT <u>St. Louis</u>                                               |  | HOLE NUMBER <u>540 6225</u>                   |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|---------------------------------------------|-------------------------------------------------------------------------|--|-----------------------------------------------|--|
| 1. COMPANY NAME <u>IT corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |            | 2. DRILL SUBCONTRACTOR <u>Geotechnology</u> |                                                                         |  | SHEET <u>1</u> OF <u>2</u>                    |  |
| 3. PROJECT <u>FUSRAP/SAS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |                                             | 4. LOCATION <u>Ph. R. M. Services</u>                                   |  |                                               |  |
| 5. NAME OF DRILLER <u>Kavin Bossler</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |            |                                             | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>CME 55</u>                    |  |                                               |  |
| 7. SIZE AND TYPE OF DRILLING AND SAMPLING EQUIPMENT <u>Hollow 3" Auger</u><br><u>SPR-1 Spout</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |            |                                             | 8. HOLE LOCATION <u>CLASS 1 (Deliveration)</u>                          |  |                                               |  |
| 9. SURFACE ELEVATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            |                                             | 10. DATE STARTED <u>11/14/00</u>                                        |  |                                               |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |                                             | 11. DATE COMPLETED <u>11/14/00</u>                                      |  |                                               |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |                                             | 16. DEPTH GROUNDWATER ENCOUNTERED <u>N/A</u>                            |  |                                               |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |            |                                             | 18. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u> |  |                                               |  |
| 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |            |                                             | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u>                 |  |                                               |  |
| 18. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | DISTURBED  |                                             | UNDISTURBED                                                             |  | 19. TOTAL NUMBER OF CORE BOXES                |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | VOC        |                                             | METALS                                                                  |  | OTHER (SPECIFY) <u>RAD</u>                    |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | BACKFILLED |                                             | MONITORING WELL                                                         |  | 21. TOTAL CORE RECOVERY                       |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |                                             |                                                                         |  | 23. SIGNATURE OF INSPECTOR <u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |            |                                             |                                                                         |  |                                               |  |
| SCALE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |            |                                             |                                                                         |  |                                               |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; right: 10%; text-align: center;"> <u>Ph. R. M. Services</u><br/> <u>Property</u> </div> <div style="position: absolute; top: 40%; left: 40%; text-align: center;"> <u>540 6225</u> </div> <div style="position: absolute; top: 70%; left: 20%; text-align: center;"> <u>TRAW</u><br/> <u>TRACKS</u> </div> <div style="position: absolute; top: 80%; left: 20%; text-align: center;"> <u>Mallettville</u><br/> <u>Property</u> </div> <div style="position: absolute; top: 10%; right: 10%; text-align: center;"> <u>N</u> </div> </div> |  |            |                                             |                                                                         |  |                                               |  |
| PROJECT <u>FUSRAP/SAS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |                                             |                                                                         |  | HOLE NO. <u>540 6225</u>                      |  |



# HTRW DRILLING LOG

| PROJECT    |       | INSPECTOR                                                      |                         | HOLE NUMBER               |                       |                                                                                                 |
|------------|-------|----------------------------------------------------------------|-------------------------|---------------------------|-----------------------|-------------------------------------------------------------------------------------------------|
| FUSRAP/SUD |       | Chris Loh                                                      |                         | SUD 6225                  |                       |                                                                                                 |
| DATE       | DEPTH | DESCRIPTION OF MATERIALS                                       | FIELD SCREENING RESULTS | TESTED SAMPLE OR CORE NO. | ANALYTICAL SAMPLE NO. | REMARKS                                                                                         |
|            | 1     | Silty LOAN clay with gravel, brown HARD loose, wet (from rain) | 4700 counts NET 0.0     | 0.5 ton/60                | SUD 6225 1053         | 1.0 2.0 Rawson                                                                                  |
|            | 2     |                                                                | 4900 counts NET 0.0     |                           | SUD 6250 1057         |                                                                                                 |
|            | 3     | TID.                                                           | 2.0 ft                  | 1105 hrs                  |                       | 11/14/00<br>Dunn. 2<br>(ph. 4.45)<br>4500 counts<br>NET Background<br>Bentonite caps<br>for BF. |

PROJECT FUSRAP/SUDS

SUD 6225

4500

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            |  | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER<br><u>54 6226</u>                    |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|----------------------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |  | 2. DRILL SUBCONTRACTOR<br><u>Geotechnics</u>                               |  | SHEET <u>1</u> OF <u>2</u>                       |  |
| 3. PROJECT<br><u>FUSRAP/S-4X</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |            |  | 4. LOCATION<br><u>Philip's Service</u>                                     |  |                                                  |  |
| 5. NAME OF DRILLER<br><u>JIM McDONNEN</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                    |  |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>10" Hollow Stem Auger</u><br><u>3001 SAGU</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |  | 8. HOLE LOCATION<br><u>Delineator</u>                                      |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |  | 9. SURFACE ELEVATION                                                       |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |  | 10. DATE STARTED<br><u>10/19/62</u>                                        |  | 11. DATE COMPLETED<br><u>10/19/62</u>            |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |  | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |            |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                  |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |            |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                  |  |
| 16. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | DISTURBED  |  | UNDISTURBED                                                                |  | 18. TOTAL NUMBER OF CORE BOXES                   |  |
| 19. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | VOC        |  | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAD</u>                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |  |                                                                            |  | 21. TOTAL CORE RECOVERY                          |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | BACKFILLED |  | MONITORING WELL                                                            |  | 23. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |  |                                                                            |  |                                                  |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |  |                                                                            |  |                                                  |  |
| SCALE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |  |                                                                            |  |                                                  |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; right: 10%; font-size: 2em;">↑ N</div> <div style="position: absolute; bottom: 10%; left: 10%;"> <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px dashed black;"></div> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 1.5em;"> <u>6224</u><br/> <u>R.R. tracks</u><br/> <u>54 6226</u> </div> <div style="position: absolute; bottom: 10%; left: 10%; font-size: 1.2em;"> <u>Mallack Road</u> </div> <div style="position: absolute; bottom: 10%; right: 10%; font-size: 1.2em;"> <u>Property</u> </div> </div> </div> </div> |  |            |  |                                                                            |  |                                                  |  |
| PROJECT <u>FUSRAP/S-4X</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |            |  |                                                                            |  | HOLE NO.<br><u>54 6226</u>                       |  |

# HTRW DRILLING LOG

| PROJECT    |  | INSPECTOR  |  | WELL NUMBER                                                                     |  |
|------------|--|------------|--|---------------------------------------------------------------------------------|--|
| FUSRAP/SWS |  | Chris Lock |  | SWS 6226                                                                        |  |
| ELEV. (ft) |  | DEPTH (ft) |  | DESCRIPTION OF MATERIALS                                                        |  |
|            |  |            |  | FIELD SCREENING RESULTS                                                         |  |
|            |  |            |  | COLLECTED SAMPLE OF CORE BOX NO.                                                |  |
|            |  |            |  | ANALYTICAL SAMPLE NO.                                                           |  |
|            |  |            |  | REMARKS                                                                         |  |
| CL         |  | 1          |  | Slag with LEAD<br>CLAY, BLACK, HARD,<br>Loose, Dry, FILL.<br>Arguean            |  |
|            |  |            |  | 6800<br>COUNT<br>NAT.<br>00<br>PPM<br>Pb<br>8100<br>COUNTS<br>NAT.<br>00<br>PPM |  |
|            |  |            |  | 0.5<br>hr/6hr                                                                   |  |
|            |  |            |  | 5470<br>6226<br>M31hr                                                           |  |
|            |  |            |  | 2.0<br>2.0 Recovery                                                             |  |
|            |  | 2          |  |                                                                                 |  |
|            |  | 3          |  | T.O                                                                             |  |
|            |  |            |  | 20 ft 1440                                                                      |  |
|            |  |            |  | hrs 10/19/00                                                                    |  |
|            |  |            |  | Drawn: 1<br>(ph. e. ps)                                                         |  |
|            |  |            |  | 6400 counts<br>NAT BACKGROUND                                                   |  |
|            |  |            |  | Bentrick Ch. p<br>for BF                                                        |  |

6400  
32  
2 64  
6  
04  
64  
32  
96

PROJECT FUSRAP/SWS

WELL NO SWS 6226

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |                                                 | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER<br><u>SLP 6027</u>                   |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|-------------------------------------------------|----------------------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |            | 2. DRILL SUBCONTRACTOR<br><u>Geo Technology</u> |                                                                            |  | SHEET 1 OF 2                                     |  |
| 3. PROJECT<br><u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |                                                 | 4. LOCATION<br><u>PH-1405 Sarwan</u>                                       |  |                                                  |  |
| 5. NAME OF DRILLER<br><u>Jim McDonnell</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |            |                                                 | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                    |  |                                                  |  |
| 7. SIZE AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow stem Auger</u><br><u>Split Spoon</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |                                                 | 8. HOLE LOCATION                                                           |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |            |                                                 | 9. SURFACE ELEVATION                                                       |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |            |                                                 | 10. DATE STARTED<br><u>10/12/00</u>                                        |  | 11. DATE COMPLETED<br><u>10/12/00</u>            |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |            |                                                 | 16. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |            |                                                 | 18. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                  |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |                                                 | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                  |  |
| 15. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | DISTURBED  |                                                 | UNDISTURBED                                                                |  | 19. TOTAL NUMBER OF CORE BOXES                   |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | VOC        |                                                 | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAD</u>                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |            |                                                 |                                                                            |  | 21. TOTAL CORE RECOVERY                          |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | BACKFILLED |                                                 | MONITORING WELL                                                            |  | 23. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |            |                                                 | SCALE:                                                                     |  |                                                  |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; left: 10%; font-size: 2em;">McKinley</div> <div style="position: absolute; top: 10%; left: 40%; font-size: 2em;">Br. Dega</div> <div style="position: absolute; top: 40%; left: 20%; font-size: 1.5em;">Phillips</div> <div style="position: absolute; top: 40%; left: 45%; font-size: 1.5em;">Sarwan</div> <div style="position: absolute; top: 40%; left: 60%; font-size: 1.5em;">Property</div> <div style="position: absolute; top: 10%; right: 10%; font-size: 3em;">N</div> <div style="position: absolute; top: 60%; left: 35%; font-size: 1.5em;">SLP 6027</div> <div style="position: absolute; top: 60%; left: 55%; font-size: 1.5em;">SLP 6028</div> <div style="position: absolute; top: 60%; left: 75%; font-size: 1.5em;">SLP 6029</div> </div> |  |            |                                                 |                                                                            |  |                                                  |  |
| PROJECT <u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |            |                                                 |                                                                            |  | HOLE NO.<br><u>SLP 6027</u>                      |  |

# HTRW DRILLING LOG

| PROJECT    |  | INSPECTOR                                                |  | TEST NUMBER                           |  |
|------------|--|----------------------------------------------------------|--|---------------------------------------|--|
| FUSRAP/SWS |  | Chris Locke                                              |  | SWS 6227                              |  |
| DEPTH      |  | DESCRIPTION OF MATERIALS                                 |  | FIELD SCREENING RESULTS               |  |
| SW         |  | SAND, GRAVEL<br>Brown, HARD, LOOSE<br>Dry, FILL, Angular |  | 5200<br>N.I.<br>0.0<br>1.0<br>P.P.    |  |
| GW         |  | SLAG, BRICK, HARD<br>LOOSE, Dry, FILL                    |  | 5900<br>COUNTS<br>N.I.<br>0.0<br>P.P. |  |
| 2          |  | T.D.                                                     |  | 18"                                   |  |
| 3          |  |                                                          |  | 1500                                  |  |

1.0/2.0 Runners

Strong petroleum odor noted.

has 10/12/10

Drum 1  
(1,2,3,4,5,6,7,8,9,10,11,12)  
5200 counts  
N.I. Backgrounds  
Bentonite Churn  
for BF

5200

PROJECT FUSRAP/SWS

SWS 6227

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |  | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER<br><u>540 6228</u>                       |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|----------------------------------------------------------------------------|--|------------------------------------------------------|--|
| 1. COMPANY NAME<br><u>FUSRAP/SIDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  | 2. DRILL SUBCONTRACTOR<br><u>Geotechnology</u>                             |  | SHEET <u>1</u> OF <u>2</u>                           |  |
| 3. PROJECT<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |            |  | 4. LOCATION<br><u>Ph. 12.13 Services</u>                                   |  |                                                      |  |
| 5. NAME OF DRILLER<br><u>JIM McDONALD</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 53</u>                    |  |                                                      |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow Stem Auger</u><br><u>SPLIT SPOON</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |  | 8. HOLE LOCATION                                                           |  |                                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |  | 9. SURFACE ELEVATION                                                       |  |                                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |  | 10. DATE STARTED<br><u>10/12/00</u>                                        |  | 11. DATE COMPLETED<br><u>10/12/00</u>                |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |  | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                                      |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |            |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                      |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                      |  |
| 16. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | DISTURBED  |  | UNDISTURBED                                                                |  | 19. TOTAL NUMBER OF CORE BOXES                       |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | VOC        |  | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAO</u>                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |  |                                                                            |  | 21. TOTAL CORE RECOVERY                              |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | BACKFILLED |  | MONITORING WELL                                                            |  | 23. SIGNATURE OF INSPECTOR<br><u>Chris Tarkenton</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |  | SCALE:                                                                     |  |                                                      |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; left: 10%; font-size: 2em;">McKinley</div> <div style="position: absolute; top: 10%; left: 40%; font-size: 2em;">Bridge</div> <div style="position: absolute; top: 40%; left: 10%; font-size: 1.5em;">Ph. 12.13</div> <div style="position: absolute; top: 40%; left: 40%; font-size: 1.5em;">Services</div> <div style="position: absolute; top: 40%; left: 60%; font-size: 1.5em;">Properties</div> <div style="position: absolute; top: 60%; left: 30%; font-size: 1.2em;">540<br/>6227</div> <div style="position: absolute; top: 60%; left: 50%; font-size: 1.2em;">540<br/>6228</div> <div style="position: absolute; top: 60%; left: 65%; font-size: 1.2em;">540<br/>6229</div> <div style="position: absolute; top: 10%; right: 10%; font-size: 3em;">↑ N</div> </div> |  |            |  |                                                                            |  |                                                      |  |
| PROJECT <u>FUSRAP/SIDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            |  |                                                                            |  | HOLE NO.<br><u>540 6228</u>                          |  |



# HTRW DRILLING LOG

| PROJECT     |  | INSPECTOR                                                         |                                           | HOLE NUMBER           |  |
|-------------|--|-------------------------------------------------------------------|-------------------------------------------|-----------------------|--|
| FUSRAP/SUDS |  | Chris Lala                                                        |                                           | SUD 6228              |  |
| DEPTH       |  | DESCRIPTION OF MATERIALS                                          |                                           | ANALYTICAL SAMPLE NO. |  |
| 1           |  | GRAVEL, SAND, LOOSE<br>Brown, HARD, Angular<br>Dry, FILL, Angular | 5500<br>COUNTS<br>NET<br>0.5<br>PPM<br>Pb | 5-00<br>6228<br>1421  |  |
| 2           |  | Slag, Cinders<br>Black, HARD, LOOSE,<br>Dry, FILL, Angular        | 5900<br>COUNTS<br>NET<br>0.5<br>PPM<br>Pb | 5-00<br>6228<br>1423  |  |
| 3           |  | TCD 2.0 ft                                                        | 1430                                      | HIS                   |  |

2.0  
2.0 Recovery

10/12/60  
Drum: 1 (Phillips)  
5000 counts  
NET Background  
Bentonite CAP  
for BF.

5000

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                           |  |           |                                                | DISTRICT <u>St. Louis</u>                                                 |  | HOLE NUMBER <u>340 6227</u>                      |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|------------------------------------------------|---------------------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                                                                                                                                                                                                    |  |           | 2. DRILL SUBCONTRACTOR<br><u>Geotechnology</u> |                                                                           |  | SHEET <u>1</u> OF <u>2</u>                       |  |
| 3. PROJECT<br><u>FUSRAP/SWS</u>                                                                                                                                                                                                                                                                                                                                                                             |  |           |                                                | 4. LOCATION<br><u>@ Phillips Service</u>                                  |  |                                                  |  |
| 5. NAME OF DRILLER<br><u>JIM McDONALD</u>                                                                                                                                                                                                                                                                                                                                                                   |  |           |                                                | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 55</u>                   |  |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hollow 3/4" Auger<br/>SPE. 4 Spoon</u>                                                                                                                                                                                                                                                                                                          |  |           |                                                | 8. HOLE LOCATION                                                          |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                             |  |           |                                                | 9. SURFACE ELEVATION                                                      |  |                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                             |  |           |                                                | 10. DATE STARTED<br><u>10/12/00</u>                                       |  | 11. DATE COMPLETED<br><u>10/12/00</u>            |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                                                                                                                                                                                                    |  |           |                                                | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>NA</u>                            |  |                                                  |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                                                                                                                                                                                                 |  |           |                                                | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>NA</u> |  |                                                  |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                     |  |           |                                                | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>NA</u>                 |  |                                                  |  |
| 16. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                                                                                                                                                                                        |  | DISTURBED |                                                | UNDISTURBED                                                               |  | 17. TOTAL NUMBER OF CORE BOXES                   |  |
| 18. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                           |  | VOC       |                                                | METALS                                                                    |  | OTHER (SPECIFY)<br><u>RAD</u>                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                             |  |           |                                                |                                                                           |  | 20. TOTAL CORE RECOVERY                          |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                     |  | BACFILLED |                                                | MONITORING WELL                                                           |  | 23. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                    |  |           |                                                | SCALE:                                                                    |  |                                                  |  |
| <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 60%;"> <p><u>McKinley</u></p> <p><u>Brandy</u></p> </div> <div style="width: 35%; text-align: right;"> <p>N ↑</p> </div> </div> <div style="margin-top: 200px; text-align: center;"> <p><u>540</u>      <u>540</u>      <u>540</u></p> <p><u>6227</u>      <u>6228</u>      <u>6229</u></p> </div> |  |           |                                                |                                                                           |  |                                                  |  |
| PROJECT <u>FUSRAP/SWS</u>                                                                                                                                                                                                                                                                                                                                                                                   |  |           |                                                |                                                                           |  | HOLE NO. <u>340 6227</u>                         |  |

# HTRW DRILLING LOG

PROJECT *FUSPAD/SOPS*

INSPECTOR *Chris Lock*

WELL NUMBER *SW 6229*

SHEET *2* OF *2*

| DEPTH<br>FEET | DEPTH<br>METERS | DESCRIPTION OF MATERIALS<br>NO.                   | FIELD SCREENING<br>RESULTS<br>NO.   | DEPTEN SAMPLE<br>OR CORE BOX NO.<br>NO. | ANALYTICAL<br>SAMPLE NO.<br>NO. | REMARKS<br>NO.                                                                                |
|---------------|-----------------|---------------------------------------------------|-------------------------------------|-----------------------------------------|---------------------------------|-----------------------------------------------------------------------------------------------|
| SW            | 1               | SAND, GRAVEL,<br>Brown, HARD, LOOSE,<br>Dry Fill. | 6200<br>COUNTS<br>NAT<br>PPI<br>PPI | 20.5<br>ton/ft <sup>3</sup>             | SW<br>6229<br>0839              | 1.5<br>2.0 ROUNDED                                                                            |
|               |                 | Brick                                             |                                     |                                         |                                 |                                                                                               |
| SW            | 2               | SAND, GRAVEL<br>Brown, HARD, LOOSE,<br>Dry Fill   | 5600<br>COUNTS<br>NAT<br>PPI<br>PPI |                                         | SW<br>6254<br>0841              | -                                                                                             |
|               | 3               | TID 2.0                                           | 61                                  | 0850                                    | hrs                             | 10/12/00<br>DIN: 4<br>(PH. 0.05)<br>5300 counts<br>P-I BACKGROUND<br>Bottom of core<br>for BF |

PROJECT *FUSPAD/SOPS*

WELL NO. *SW 6229*

| HTRW DRILLING LOG                                                                                                                                                                                                                   |  |            |  | DISTRICT <u>ST. Louis</u>                                                  |  | HOLE NUMBER<br><u>SD 6230</u>                    |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|----------------------------------------------------------------------------|--|--------------------------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corporation</u>                                                                                                                                                                                            |  |            |  | 2. DRILL SUBCONTRACTOR<br><u>Geotechnology</u>                             |  | SHEET <u>1</u> OF <u>2</u>                       |  |
| 3. PROJECT<br><u>FUSRAP/SWS</u>                                                                                                                                                                                                     |  |            |  | 4. LOCATION<br><u>PHILIPS Service</u>                                      |  |                                                  |  |
| 5. NAME OF DRILLER<br><u>Jim McDonald</u>                                                                                                                                                                                           |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 35</u>                    |  |                                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>1 1/2" Hollow Split Spoon</u><br><u>Hollow Split Spoon</u><br><u>Hollow Split Spoon</u>                                                                                 |  |            |  | 8. HOLE LOCATION<br><u>Delmar</u>                                          |  |                                                  |  |
|                                                                                                                                                                                                                                     |  |            |  | 9. SURFACE ELEVATION                                                       |  |                                                  |  |
|                                                                                                                                                                                                                                     |  |            |  | 10. DATE STARTED<br><u>10/23/00</u>                                        |  | 11. DATE COMPLETED<br><u>10/27/00</u>            |  |
| 12. OVERBURDEN THICKNESS                                                                                                                                                                                                            |  |            |  | 13. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                                  |  |
| 14. DEPTH DRILLED INTO ROCK                                                                                                                                                                                                         |  |            |  | 15. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                  |  |
| 16. TOTAL DEPTH OF HOLE                                                                                                                                                                                                             |  |            |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                  |  |
| 18. GEOTECHNICAL SAMPLES<br><u>0</u>                                                                                                                                                                                                |  | DISTURBED  |  | UNDISTURBED                                                                |  | 19. TOTAL NUMBER OF CORE BOXES                   |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                   |  | VOC        |  | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAO</u>                    |  |
|                                                                                                                                                                                                                                     |  |            |  |                                                                            |  | 21. TOTAL CORE RECOVERY                          |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                             |  | BACKFILLED |  | MONITORING WELL                                                            |  | 23. SIGNATURE OF INSPECTOR<br><u>[Signature]</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                            |  |            |  |                                                                            |  |                                                  |  |
| SCALE:                                                                                                                                                                                                                              |  |            |  |                                                                            |  |                                                  |  |
| <div style="text-align: right; margin-bottom: 20px;">↑ N</div> <div style="text-align: center;"> <u>PHILIPS Service Property</u><br/><br/> <br/><br/> <u>RR</u><br/><br/> <u>SD 6230</u><br/><br/> <u>Mallikind Property</u> </div> |  |            |  |                                                                            |  |                                                  |  |
| PROJECT <u>FUSRAP/SWS</u>                                                                                                                                                                                                           |  |            |  | HOLE NO. <u>SD 6230</u>                                                    |  |                                                  |  |

# HTRW DRILLING LOG

| PROJECT    |             | INSPECTOR                                           |                                                                            | WELL NUMBER                               |                                | SHEET                                                                                                  |  |
|------------|-------------|-----------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------|--|
| FUSAP/SURS |             | Chris Lock                                          |                                                                            | 540 6230                                  |                                | 02 of 2                                                                                                |  |
| CLC<br>IN  | DEPTH<br>IN | DESCRIPTION OF MATERIALS<br>LOG                     | FIELD SCREENING<br>RESULTS<br>IN                                           | DEFECTION SAMPLE<br>OR CORE SAM NO.<br>IN | ANALYTICAL<br>SAMPLE NO.<br>IN | REMARKS                                                                                                |  |
| CL         | 1           | S. 24, LEAN CLAY<br>Brown - HARD, Dense<br>Dry, F&H | 8100<br>COUNTS<br>NAT<br>PPM<br>PTD<br>7500<br>COUNTS<br>NAT<br>PPM<br>PTD |                                           | 5400<br>6230<br>0846           | 1.6<br>2.0<br>Raining                                                                                  |  |
|            | 2           |                                                     |                                                                            |                                           | 5400<br>6255<br>0846           |                                                                                                        |  |
|            | 3           |                                                     | T.D. 2.0 ft 0900                                                           |                                           |                                | his 10/23/00<br>Drum: 1<br>(p.h. d.p.s)<br>6800 counts<br>NAT Background<br>Bentonite chips<br>for BF. |  |

FUSAP/SURS

540 6230





# HTRW DRILLING LOG

| FUSRAP/SLPS |   | Chris Cook                                          |                                                                            | 3rd 6231                                                                                     |
|-------------|---|-----------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| CL          | 1 | 2                                                   | 3                                                                          | 4                                                                                            |
| CL          | 1 | Silty LOAM CLAY<br>Brown. Hard, Dense,<br>Dip. Flt. | 7400<br>COUNTS<br>NET<br>PPM<br>PID<br>7800<br>COUNTS<br>NET<br>PPM<br>PID | 540V<br>6231<br>1536                                                                         |
|             | 2 |                                                     |                                                                            | 540V<br><del>6231</del><br>1536                                                              |
|             | 3 | TID                                                 | 2.0                                                                        | 6+                                                                                           |
|             |   |                                                     |                                                                            | 1545 hrs 10/10/00                                                                            |
|             |   |                                                     |                                                                            | Drain - 1C<br>Phillips Service<br>7800 counts NET<br>Background<br>Bentonite Chips<br>for GF |

FUSRAP/SLPS

540 6231

| HTRW DRILLING LOG                                                                                                                 |  | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER: <u>SLD 70093</u> |  |
|-----------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------|--|-------------------------------|--|
| 1. COMPANY NAME<br><u>IT Corp.</u>                                                                                                |  | 2. DRILLING SUBCONTRACTOR<br><u>Layne - Western</u>                        |  | SHEET <u>1</u> OF <u>3</u>    |  |
| 3. PROJECT<br><u>FUSRAP / SLDs</u>                                                                                                |  | 4. LOCATION<br><u>PSC Metals</u>                                           |  |                               |  |
| 5. NAME OF DRILLER<br><u>Charles Riffle</u>                                                                                       |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 75</u>                    |  |                               |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>CME 75 using 4 1/4" Hollow Stem Auger and 3 in. x 2' split spoon.</u> |  | 8. HOLE LOCATION                                                           |  |                               |  |
| 9. SURFACE ELEVATION                                                                                                              |  | 10. DATE STARTED<br><u>5-7-02</u>                                          |  |                               |  |
| 11. DATE COMPLETED<br><u>5-7-02</u>                                                                                               |  | 12. OVERBURDEN THICKNESS<br><u>N/A</u>                                     |  |                               |  |
| 13. DEPTH DRILLED INTO ROCK<br><u>N/A</u>                                                                                         |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br><u>12.0' BGS</u>                      |  |                               |  |
| 14. TOTAL DEPTH OF HOLE<br><u>14.0' BGS</u>                                                                                       |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                               |  |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)                                                                                      |  | 18. GEOTECHNICAL SAMPLES                                                   |  |                               |  |
| 19. TOTAL NUMBER OF CORE BOXES                                                                                                    |  | 20. SAMPLES FOR CHEMICAL ANALYSIS                                          |  |                               |  |
| 21. TOTAL CORE RECOVERY %                                                                                                         |  | 22. DISPOSITION OF HOLE                                                    |  |                               |  |
| 23. SIGNATURE OF INSPECTOR                                                                                                        |  | 24. LOCATION SKETCH/COMMENTS                                               |  |                               |  |

LOCATION SKETCH/COMMENTS

SCALE: Not to Scale

|                                 |                              |
|---------------------------------|------------------------------|
| PROJECT<br><u>FUSRAP / SLDs</u> | HOLE NO.<br><u>SLD 70093</u> |
|---------------------------------|------------------------------|

Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |     |                                                                                                        |      |                         |                       |            |
|----------------------------------------|-----|--------------------------------------------------------------------------------------------------------|------|-------------------------|-----------------------|------------|
| PROJECT                                |     | OPERATOR                                                                                               |      | HOLE NUMBER             |                       |            |
| FUSRAP/SLDS                            |     | Phillip Statler                                                                                        |      | SLD 70093               |                       |            |
| DEPTH                                  |     | DESCRIPTION OF MATERIALS                                                                               |      | FIELD SCREENING RESULTS | ANALYTICAL SAMPLE NO. | BLOW COUNT |
| (1)                                    | (2) | (3)                                                                                                    | (4)  | (5)                     | (6)                   | (7)        |
| SM                                     | 1   | silty sand w/ fine gravel, loose, poorly graded, lt. brn., moist, one large piece of glass.            | 6200 | 0.0                     | SLD 70093             | 14         |
|                                        |     | med. gravel                                                                                            | 5500 | 0.0                     | 5-7-93                | 22         |
|                                        |     | silt becoming blk., less sand, pieces of glass.                                                        | 5500 | 0.0                     |                       | 25         |
|                                        | 2   | wood in tip                                                                                            | 5800 | 0.0                     | SLD 70094             | 28         |
|                                        |     |                                                                                                        | 5900 | 0.0                     | 1050                  | 8          |
|                                        | 3   | few med. gravel                                                                                        | 5600 | 0.0                     |                       | 14         |
|                                        |     | few clay                                                                                               | 5300 | 0.0                     |                       | 25         |
|                                        | 4   | brick fragments and med. gravel                                                                        | 5400 | 0.0                     | SLD 70095             | 1550       |
|                                        |     |                                                                                                        | 5200 | 0.0                     | 1100                  | 8          |
|                                        |     |                                                                                                        | 5100 | 0.0                     | archive sample taken  | 14         |
| CL                                     | 5   | silty clay, stiff, med. plast., dk. brn. to blk., little gravel, moist.                                | 5600 | 0.0                     |                       | 22         |
| SM                                     | 6   | piece of wood, silty sand, silty gravel, loose, poorly graded, dk. brn. to blk., moist, piece of wood. | 5400 | 0.0                     |                       | 25         |
|                                        |     |                                                                                                        | 5200 | 0.0                     |                       | 4          |
|                                        | 7   | silty clay, med. stiff, med. plast., dk. brn., moist.                                                  | 5500 | 0.0                     |                       | 4          |
|                                        |     |                                                                                                        | 5500 | 0.0                     |                       | 8          |
| CL                                     | 8   | clay becoming lt. grey, few brick frags.                                                               | 5700 | 0.0                     |                       | 7          |
|                                        |     | mottled grey/green.                                                                                    | 5400 | 0.0                     |                       | 5          |
| 9                                      |     |                                                                                                        |      |                         |                       |            |

Continued on  
Page 2

FUSRAP/SLDS

SLD 70093

1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |               |                                   |                           |                 |                                    | HOLE NUMBER<br>SLD 70093 |                                                                                                                                                                           |
|----------------------------------------|---------------|-----------------------------------|---------------------------|-----------------|------------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROJECT<br>FUSRAP / SLDs               |               | INSPECTOR<br>Phillip Statler      |                           | SHEET<br>3 of 3 |                                    | SUBJECTS                 |                                                                                                                                                                           |
| CHL                                    | DEPTH<br>(ft) | DESCRIPTION OF MATERIALS<br>(1-3) | FIELD SAMPLES<br>(4)      | RECOVERY<br>(5) | ANALYTICAL<br>SAMPLE NO.<br>(6)    | SLOPE CORRECTION<br>(7)  | REMARKS<br>(8)                                                                                                                                                            |
|                                        |               | few wood frags                    | NaI<br>5300<br>PID<br>0.0 |                 | Sample<br>taken<br>(1395)          | 7                        |                                                                                                                                                                           |
|                                        | 10            | becoming more moist               | 5600<br>0.0               | no<br>recovery  |                                    | 8                        |                                                                                                                                                                           |
|                                        |               |                                   | 5800<br>0.0               | 1.7/<br>2.0     |                                    | 1                        |                                                                                                                                                                           |
|                                        | 11            |                                   | 5200<br>0.0               |                 |                                    | 5                        |                                                                                                                                                                           |
| CL                                     |               | wood frags                        | 5400<br>0.0               |                 | Archive<br>sample<br>taken<br>1420 | 6                        | ← in-situ<br>encountered                                                                                                                                                  |
|                                        | 12            |                                   | 5800<br>0.0               | no<br>recovery  |                                    | 8                        | → SLD 70110<br>← 5-14-02<br>← 1305 P.S.                                                                                                                                   |
|                                        |               |                                   | 5900<br>0.0               |                 |                                    |                          |                                                                                                                                                                           |
|                                        | 13            |                                   | 6000<br>0.0               |                 | archive<br>sample<br>taken<br>1420 |                          | sample taken<br>at 1420                                                                                                                                                   |
|                                        | 14            |                                   |                           | no<br>recovery  |                                    |                          |                                                                                                                                                                           |
|                                        |               | TD: 14.0' BGS<br>1420<br>5-7-02   |                           |                 |                                    |                          | Background:<br>NaI: 6000<br>PID: 0.0<br>Backfilled<br>w/ Bentonite<br>Slurry Grout<br>P.S.<br>(1.5 bags / 30<br>gal.)<br>H <sub>2</sub> O<br>Soil cuttings<br>in Drum #1. |

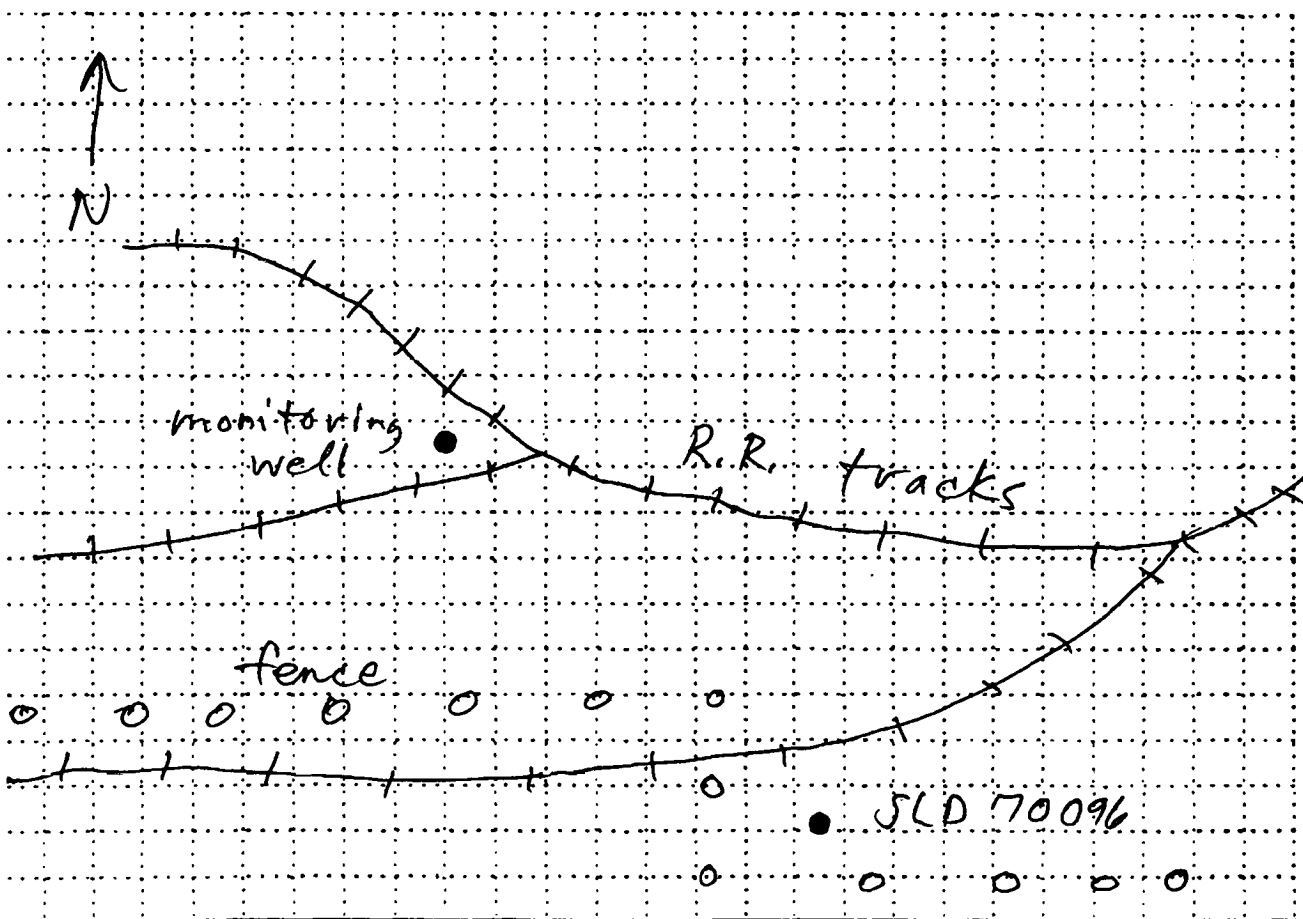
FUSRAP / SLDs

SLD 70093

|                                                                                                                                                       |  |                                                                            |  |                                                 |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------|--|-------------------------------------------------|--|
| <b>HTRW DRILLING LOG</b>                                                                                                                              |  | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER: <u>SLD 70096</u>                   |  |
| 1. COMPANY NAME<br><u>IT Corp.</u>                                                                                                                    |  | 2. DRILLING SUBCONTRACTOR<br><u>Layne-Western</u>                          |  | SHEET <u>1</u> OF <u>3</u> SHEETS               |  |
| 3. PROJECT<br><u>FUSRAP/SLDS</u>                                                                                                                      |  | 4. LOCATION<br><u>PSC Metals</u>                                           |  |                                                 |  |
| 5. NAME OF DRILLER<br><u>Charles Riffle</u>                                                                                                           |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 75</u>                    |  |                                                 |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>CME 75 using 4 1/2"</u><br><u>Hollow Stem Augers and 3 in. X 2'</u><br><u>Split Spoon</u> |  | 8. HOLE LOCATION                                                           |  |                                                 |  |
| 9. SURFACE ELEVATION                                                                                                                                  |  | 10. DATE STARTED<br><u>5-8-02</u>                                          |  | 11. DATE COMPLETED<br><u>5-8-02</u>             |  |
| 12. OVERBURDEN THICKNESS                                                                                                                              |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br><u>8.0' BGS</u>                       |  |                                                 |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                                           |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                 |  |
| 14. TOTAL DEPTH OF HOLE<br><u>16.0' BGS</u>                                                                                                           |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                 |  |
| 18. GEOTECHNICAL SAMPLING                                                                                                                             |  | DISTURBED <input checked="" type="checkbox"/>                              |  | UNDISTURBED <input checked="" type="checkbox"/> |  |
| 19. TOTAL NUMBER OF CORE BOXES<br><u>N/A</u>                                                                                                          |  | 20. SAMPLES FOR CHEMICAL ANALYSIS                                          |  |                                                 |  |
| VOC <input checked="" type="checkbox"/>                                                                                                               |  | METALS <input checked="" type="checkbox"/>                                 |  | OTHER (SPECIFY) <u>RAP</u>                      |  |
| 21. TOTAL CORE RECOVERY %<br><u>0</u>                                                                                                                 |  | 22. DISPOSITION OF HOLE<br><u>BACKFILLED</u>                               |  |                                                 |  |
| MONITORING WELL <input checked="" type="checkbox"/>                                                                                                   |  | OTHER (SPECIFY)                                                            |  |                                                 |  |
| 23. SIGNATURE OF INSPECTOR<br><u>Blayne M. Stoltz</u>                                                                                                 |  |                                                                            |  |                                                 |  |

**LOCATION SKETCH/COMMENTS**

SCALE: Not to Scale



|                               |                              |
|-------------------------------|------------------------------|
| PROJECT<br><u>FUSRAP/SLDS</u> | HOLE NO.<br><u>SLD 70096</u> |
|-------------------------------|------------------------------|

EM 1110-1-4000  
1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |              |                                                                                                      |                                 |                     |                                                  |                    | HOLE NUMBER<br>SLD 70096 |
|----------------------------------------|--------------|------------------------------------------------------------------------------------------------------|---------------------------------|---------------------|--------------------------------------------------|--------------------|--------------------------|
| PROJECT<br>FUSRAP/SLDS                 |              | INSPECTOR<br>Phillip Statler                                                                         |                                 | SHEET<br>2 OF 3     |                                                  |                    |                          |
| CH. NO.<br>(1)                         | DEPTH<br>(2) | DESCRIPTION OF MATERIALS<br>(3)                                                                      | FIELD RECORDING<br>TESTS<br>(4) | REMARKS<br>(5)      | ANALYTICAL<br>SAMPLE NO.<br>(6)                  | BLANK COUNT<br>(7) | REMARKS<br>(8)           |
| SP                                     | 1            | fine sand and gravel<br>w/ few cinders and<br>silt, loose, poorly graded,<br>lt. brn. to brn., moist | Nat<br>6700<br>0.0              | 2.0/<br>2.0         | SLD<br>70096<br>5-8-02<br>1040                   | 3                  |                          |
|                                        |              |                                                                                                      | 6900<br>0.0                     |                     |                                                  | 4                  |                          |
|                                        |              |                                                                                                      | 6400<br>0.0                     |                     |                                                  | 6                  |                          |
| CL                                     | 2            | silty clay, stiff, med.<br>plast., moist, lt. brn.,<br>trace sands<br>few med gravel                 | 5600<br>0.0                     | 1.8/<br>2.0         | SLD<br>70097<br>1045                             | 12                 |                          |
|                                        |              |                                                                                                      | 5900<br>0.0                     |                     | SLD<br>70098<br>1105                             | 6                  |                          |
|                                        | 3            |                                                                                                      | 5700<br>0.0                     | 1.8/<br>2.0         | PSC<br>00150<br>5-8-02<br>1110                   | 12                 |                          |
|                                        |              |                                                                                                      | 5400<br>0.0                     |                     |                                                  | 13                 |                          |
|                                        | 4            | piece of wood                                                                                        | 5300<br>0.0                     | no recovery         |                                                  | 8                  |                          |
|                                        |              |                                                                                                      | 6100<br>0.0                     |                     |                                                  | 2                  |                          |
|                                        | 5            |                                                                                                      | 5600<br>0.0                     | 1.7/<br>2.0         |                                                  | 4                  |                          |
|                                        |              |                                                                                                      | 6900<br>0.0                     |                     | PSC 00131<br>archive<br>sample<br>5.2-5.7<br>805 | 3                  |                          |
|                                        | 6            | few med. gravel                                                                                      | 5500<br>0.0                     | no recovery         |                                                  | 39                 |                          |
|                                        |              |                                                                                                      | N/A<br>N/A                      |                     |                                                  | 47                 |                          |
|                                        | 7            |                                                                                                      | N/A<br>N/A                      | no<br>recovery      |                                                  | 27                 |                          |
|                                        |              |                                                                                                      | N/A<br>N/A                      |                     |                                                  | 14                 |                          |
|                                        | 8            |                                                                                                      | N/A<br>N/A                      | (saturated<br>P.S.) |                                                  | 8                  |                          |
|                                        |              |                                                                                                      | 6700<br>0.0                     |                     |                                                  | 3                  |                          |
|                                        | 9            | becoming soft, few<br>sand (sand well-rounded)<br>color slightly grey.                               | 6900<br>0.0                     | 1.6/<br>2.0         |                                                  | 6                  |                          |
| 6900<br>0.0                            |              |                                                                                                      | PSC<br>00132<br>1300            |                     |                                                  |                    |                          |
| Continued on<br>Page 2 Ps. 3           |              |                                                                                                      |                                 |                     |                                                  |                    |                          |

PSC 00131  
5.2-5.2' 805  
MS  
archive geological  
sample (1120)  
↓  
SLD 70111  
5-16-02  
to top P.S.

rough  
augering  
in-situ  
encountered  
rough  
augering

Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |               |                                  |                                 |                                         |                                  |                    | WELL NUMBER<br>SLD 70096                                                                                                                 |
|----------------------------------------|---------------|----------------------------------|---------------------------------|-----------------------------------------|----------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| PROJECT<br>FUSRAP/SLDS                 |               | INSPECTOR<br>Phillip Statler     |                                 |                                         |                                  |                    | SHEET<br>3 OF 3                                                                                                                          |
| CLV<br>10                              | DEPTH<br>(ft) | DESCRIPTION OF MATERIALS<br>(ft) | FIELD SAMPLE<br>REMARKS<br>(ft) | ANALYTICAL<br>REMARKS<br>(ft)           | ANALYTICAL<br>SAMPLE NO.<br>(ft) | BLDG COUNT<br>(ft) | REMARKS<br>(ft)                                                                                                                          |
| CL                                     | 10            | Same as above                    | 5600<br>0.0                     |                                         | archive sample 1330              | 6                  | archive geo. sample taken from 9.0-9.5 BGS                                                                                               |
|                                        |               |                                  | N/A                             | no recovery                             |                                  | 6                  |                                                                                                                                          |
|                                        |               |                                  | 6700<br>-0.0                    |                                         |                                  | 1                  |                                                                                                                                          |
|                                        |               |                                  | 5700<br>0.0                     | 1.6/2.0                                 | PSC 00133 1340                   | 3                  |                                                                                                                                          |
|                                        | 11            |                                  | 5400<br>0.0                     |                                         | archive sample 1345              | 4                  | archive geo. sample taken from 11.1-11.6' BGS                                                                                            |
|                                        |               |                                  | 5300<br>0.0                     | no recovery                             |                                  | 6                  |                                                                                                                                          |
|                                        |               |                                  | N/A                             |                                         | P.S. 117                         | 1                  |                                                                                                                                          |
|                                        |               |                                  | N/A                             | no recovery                             | P.S. 117                         | 3                  |                                                                                                                                          |
|                                        | 13            |                                  | N/A                             | recovery (due to loss of fine material) |                                  | 3                  | wet, silty residue observed in spoon                                                                                                     |
|                                        |               |                                  | N/A                             |                                         |                                  | 3                  |                                                                                                                                          |
|                                        |               |                                  | N/A                             |                                         |                                  | 6                  |                                                                                                                                          |
|                                        |               |                                  | N/A                             |                                         |                                  | 3                  |                                                                                                                                          |
| 14                                     | Same as above | 5400<br>0.0                      | 1.5/2.0                         |                                         | 3                                |                    |                                                                                                                                          |
|                                        |               | 5500<br>0.0                      |                                 |                                         | 5                                |                    |                                                                                                                                          |
|                                        |               | 5700<br>0.0                      |                                 | PSC 00134 1425                          | 3                                |                    |                                                                                                                                          |
|                                        |               | N/A                              | no recovery                     |                                         | 4                                |                    |                                                                                                                                          |
| 15                                     |               |                                  |                                 |                                         |                                  |                    |                                                                                                                                          |
|                                        |               |                                  |                                 |                                         |                                  |                    |                                                                                                                                          |
| 16                                     |               |                                  |                                 |                                         |                                  |                    |                                                                                                                                          |
|                                        |               |                                  |                                 |                                         |                                  |                    |                                                                                                                                          |
|                                        |               | TD: 16.0' BGS<br>1416<br>5-8-02  |                                 |                                         |                                  |                    | Background:<br>NaI: 5900<br>PID: 0.0<br>Soil Cutting in Drum #1<br>Backfilled w/ 1.5 bags bent. slurry grout / 30 gal. H <sub>2</sub> O. |

FUSRAP / SLDS

SLD 70096



| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  | DISTRICT <u>St. Louis</u>                                                  |  |  | HOLE NUMBER: <u>SLD 70099</u>       |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------------------------------------------------------|--|--|-------------------------------------|--|--|
| 1. COMPANY NAME<br><u>Shaw ENI</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  | 2. DRILLING SUBCONTRACTOR<br><u>Layne - Western</u>                        |  |  | SHEET <u>1</u> OF <u>3</u>          |  |  |
| 3. PROJECT<br><u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  | 4. LOCATION<br><u>PSC Metals</u>                                           |  |  |                                     |  |  |
| 5. NAME OF DRILLER<br><u>Charles Riffle</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 75</u>                    |  |  |                                     |  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>CME 75 using 4 1/4" Hollow Stem Augers and 3 in. x 2' split spoon. Not: LUD 169237</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  | 8. HOLE LOCATION                                                           |  |  |                                     |  |  |
| 9. SURFACE ELEVATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  | 10. DATE STARTED<br><u>5-9-02</u>                                          |  |  | 11. DATE COMPLETED<br><u>5-9-02</u> |  |  |
| 12. OVERBURDEN THICKNESS<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br><u>10.0' BGS</u>                      |  |  |                                     |  |  |
| 13. DEPTH DRILLED INTO ROCK<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |  |                                     |  |  |
| 14. TOTAL DEPTH OF HOLE<br><u>16.0' BGS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |  |                                     |  |  |
| 18. GEOTECHNICAL SAMPLES<br><input checked="" type="checkbox"/> DISTURBED <input type="checkbox"/> UNDISTURBED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  | 19. TOTAL NUMBER OF CORE BOXES<br><u>0</u>                                 |  |  |                                     |  |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS<br><input checked="" type="checkbox"/> VOC <input checked="" type="checkbox"/> METALS <input checked="" type="checkbox"/> OTHER (SPECIFY) <u>RAO</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  | OTHER (SPECIFY) <u>0</u>                                                   |  |  | OTHER (SPECIFY) <u>0</u>            |  |  |
| 22. DISPOSITION OF HOLE<br><input checked="" type="checkbox"/> BACKFILLED <input checked="" type="checkbox"/> MONITORING WELL <input checked="" type="checkbox"/> OTHER (SPECIFY) <u>0</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  | 23. SIGNATURE OF INSPECTOR<br><u>Blair M. Stalter</u>                      |  |  |                                     |  |  |
| <div style="display: flex; justify-content: space-between;"> <div>LOCATION SKETCH/COMMENTS</div> <div>SCALE: <u>Not to Scale</u></div> </div> <div style="height: 300px; border: 1px dotted black; position: relative;"> <div style="position: absolute; top: 10%; left: 10%; font-size: 2em;">N</div> <div style="position: absolute; top: 40%; left: 10%; font-size: 2em;">McKinley</div> <div style="position: absolute; top: 40%; left: 55%; font-size: 2em;">Bridge</div> <div style="position: absolute; top: 60%; left: 30%; transform: rotate(-45deg); font-size: 1.5em;">R.P. Track</div> <div style="position: absolute; top: 65%; left: 55%; font-size: 1.5em;">SLD 70099</div> <div style="position: absolute; top: 65%; left: 65%; font-size: 1.5em;">fence</div> </div> |  |  |                                                                            |  |  |                                     |  |  |
| PROJECT <u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |                                                                            |  |  | HOLE NO. <u>SLD 70099</u>           |  |  |

Figure 4-2. HTRW Drilling Log

Nov 98

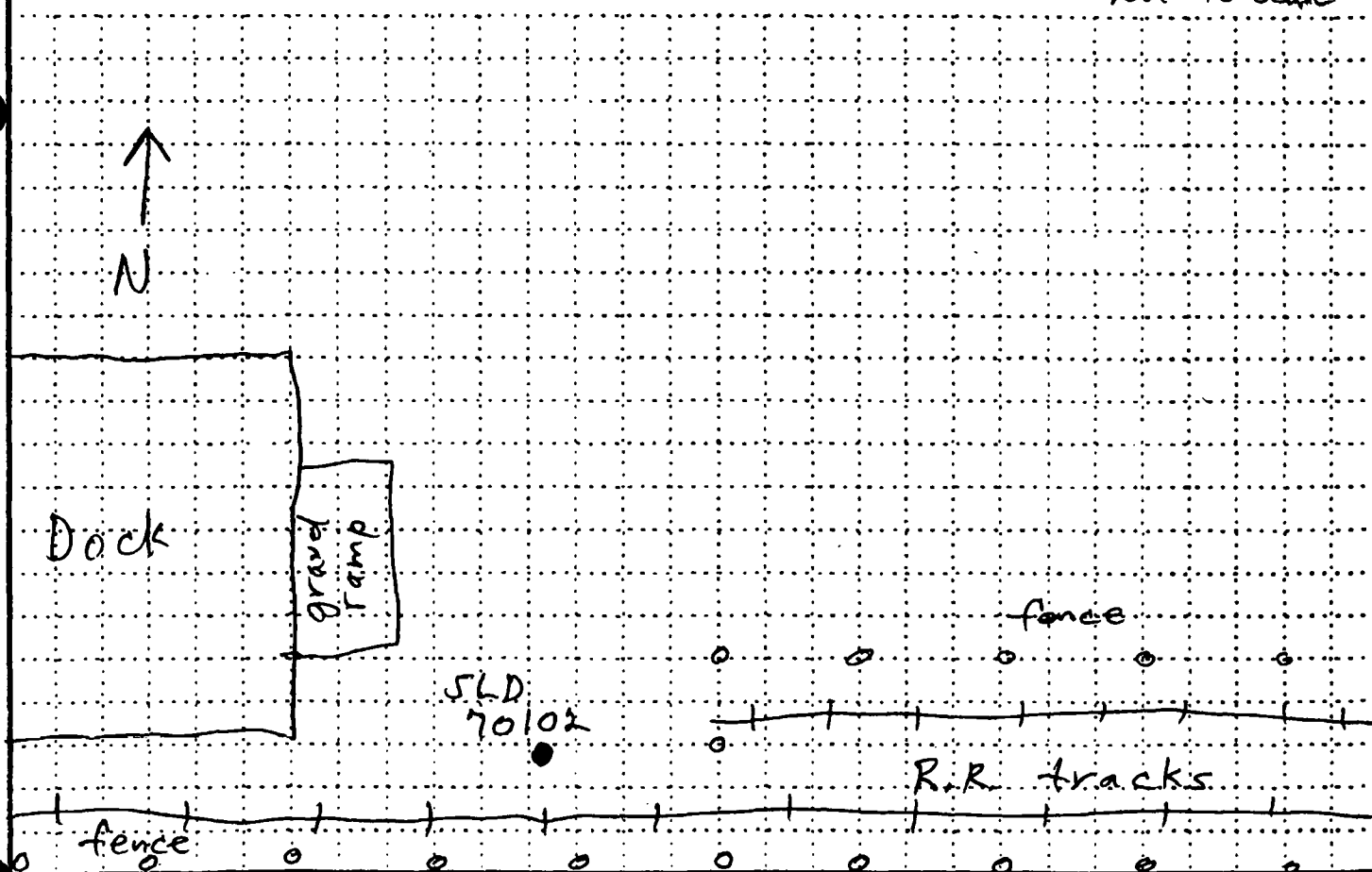
| HTRW DRILLING LOG (CONTINUATION SHEET) |              |                                                                                                            |                                    |                                 |                                     |                        | HOLE NUMBER<br>SLD 70099 |
|----------------------------------------|--------------|------------------------------------------------------------------------------------------------------------|------------------------------------|---------------------------------|-------------------------------------|------------------------|--------------------------|
| PROJECT<br>FUSRAP/SLDS                 |              | INSPECTOR<br>Phillip Stalter                                                                               |                                    | INSET<br>2 of 3 SHEETS          |                                     |                        |                          |
| ELEV.<br>(1)                           | DEPTH<br>(2) | DESCRIPTION OF MATERIALS<br>(3)                                                                            | FIELD CORRECTION<br>REMARKS<br>(4) | ANALYTICAL<br>SAMPLE NO.<br>(5) | SLOPE CORRECT<br>(6)                | REMARKS<br>(7)         |                          |
| SM                                     |              | silty sand, fine, loose,<br>poorly graded, dk. brn.,<br>moist., few med. gravel.                           | 6600<br>0.0                        |                                 | SLD<br>70099<br>5-9-02<br>1030      | 4                      |                          |
| CL                                     | 1            | silty clay, soft, med.<br>plast., lt. brn. to brn.,<br>moist., brick frag. at 65                           | 6300<br>0.0                        | 2.0/<br>2.0                     |                                     | 4                      |                          |
|                                        |              | trace coarse gr.<br>few med. gravel, trace silt                                                            | 6100<br>0.0                        |                                 |                                     | 6                      |                          |
| SM                                     | 2            | silty sand, fine, loose,<br>poorly graded, dk. brn.,<br>moist., trace dindars and fine<br>gravel, few ash. | 6800<br>0.0                        |                                 | SLD<br>70100<br>5-9-02<br>1035      | 6                      |                          |
|                                        |              | becoming wet                                                                                               | 7300<br>0.0                        | 1.3/<br>2.0                     |                                     | 4                      |                          |
| CL                                     | 3            | silty clay w/ few sand (fine),<br>soft, med. plast., lt. brn.,<br>wet.                                     | 7700<br>0.0                        |                                 | SLD<br>70101<br>1045                | 3                      |                          |
|                                        |              |                                                                                                            | 6900<br>0.0                        |                                 |                                     | 1                      |                          |
| CL                                     | 4            |                                                                                                            | N/A<br>N/A                         | no<br>recovery                  |                                     | 1                      |                          |
|                                        |              | piece of wood                                                                                              | 6400<br>0.0                        |                                 |                                     | 1                      |                          |
| SM                                     | 5            | silty sand w/ trace clay,<br>fine, loose, poorly graded,<br>dk. brn., moist., trace<br>med. gravel         | 6700<br>0.0                        | 2.0/<br>2.0                     |                                     | 1                      |                          |
|                                        |              |                                                                                                            | 6100<br>0.0                        |                                 | archive<br>sample<br>5.3-5.8<br>BAS | 2                      |                          |
|                                        |              |                                                                                                            | 5900<br>0.0                        |                                 |                                     | 3                      |                          |
|                                        | 6            | clay w/ low silt, very soft,<br>med. plast., lt. brn. to<br>gry., moist.                                   | 6600<br>0.0                        |                                 | archive<br>sample<br>6.0-6.6<br>BAS | 1                      |                          |
|                                        |              | wood frags.                                                                                                | 6300<br>0.0                        | 1.6/<br>2.0                     |                                     | 1                      |                          |
| CL                                     | 7            | few very fine sand<br>silty clay w/ low fine sand,<br>very soft, lt. brn., med.<br>plast., moist.          | 5700<br>0.0                        |                                 |                                     | 1                      |                          |
|                                        |              |                                                                                                            | N/A                                | no<br>recovery                  |                                     | 3                      |                          |
|                                        | 8            |                                                                                                            | 6300<br>0.0                        | 1.6/<br>2.0                     | archive<br>sample<br>8.1-8.6<br>BAS | weight<br>of<br>hammer |                          |
|                                        |              | wood<br>layer, weathered                                                                                   | 6100<br>0.0                        |                                 | archive                             | 1                      |                          |
| Continued on<br>Page 3                 |              |                                                                                                            |                                    |                                 |                                     |                        |                          |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                       |                                     |                                               |                                          |                        |                                                                                                                                                                               | WELL NUMBER<br>SLD 70099 |
|----------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------|------------------------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| PROJECT<br>FUS RAP/SLDS                |                                                                                                       | INSPECTOR<br>Phillip Statler        |                                               |                                          |                        |                                                                                                                                                                               | SHEET<br>3 OF 3          |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS<br>(1-6)                                                                     | FIELD SPLITTING<br>RESULTS<br>(1-4) | RECOVERY SAMPLE<br>BY OTHER SITE NO.<br>(1-5) | ANALYTICAL<br>SAMPLE NO.<br>(1-7)        | BLOW COUNT<br>(1-8)    | REMARKS<br>(1-9)                                                                                                                                                              |                          |
| CL                                     | few wood frags.<br>piece of wood (pine)                                                               | N/A<br>6500<br>0.0                  |                                               | Sample<br>taken<br>2.7-9.4' BGS          | 1                      | geo. sample<br>taken at 1130                                                                                                                                                  |                          |
| 10.5                                   |                                                                                                       | N/A<br>N/A<br>0.0                   | no<br>recovery                                |                                          | 5                      |                                                                                                                                                                               |                          |
| SM                                     | silty sand w/ clay,<br>fine, loose, poorly graded,<br>lt. brn. to gry., <del>very</del><br>saturated. | 6500<br>-0.0                        |                                               |                                          | 2                      | ← in-situ<br>encountered                                                                                                                                                      |                          |
| 11                                     |                                                                                                       | 6600<br>0.0                         | 1.7/<br>2.0                                   |                                          | 2                      |                                                                                                                                                                               |                          |
|                                        |                                                                                                       | 6200<br>0.0                         |                                               |                                          | 3                      | geo. archive<br>sample,<br>11.2-11.7 BGS                                                                                                                                      |                          |
| 13                                     |                                                                                                       | 6400<br>0.0                         | no<br>recovery                                | geo. archive<br>sample<br>taken          | 5                      | 1325 (SLD<br>70114, 5-16-02;<br>1325) P.S.                                                                                                                                    |                          |
|                                        |                                                                                                       | 6600<br>0.0                         |                                               | geo. archive<br>sample,<br>12.0-12.5 BGS | weight<br>of<br>hammer | geo. archive<br>sample<br>1335                                                                                                                                                |                          |
| CL                                     | silty clay, very soft,<br>med. plast., gry., saturated.                                               | 6100<br>0.0                         | 2.0/<br>2.0                                   |                                          | weight<br>of<br>hammer |                                                                                                                                                                               |                          |
|                                        |                                                                                                       | 6500<br>0.0                         |                                               |                                          | 1                      |                                                                                                                                                                               |                          |
| 14                                     |                                                                                                       | 6400<br>0.0                         |                                               |                                          | 3                      |                                                                                                                                                                               |                          |
|                                        | TD: 14.0' BGS<br>1330<br>5-9-02                                                                       |                                     |                                               |                                          |                        | Back ground<br>N/A: 6400<br>PID: 0.0<br><br>Soil cuttings<br>placed in<br>Drum #1.<br><br>Back-filled<br>w/ bentonite<br>slurry grout<br>@ 20-30% p.s.<br>1.5 bags / 2 gal 40 |                          |

|                                                                                                                                                                                                                           |  |                                                     |                                                                            |                                   |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------|--|
| <b>HTRW DRILLING LOG</b>                                                                                                                                                                                                  |  | DISTRICT <u>St. Louis</u>                           |                                                                            | HOLE NUMBER: <u>SLD 70102</u>     |  |
| 1. COMPANY NAME<br><u>Shaw E &amp; I</u>                                                                                                                                                                                  |  | 2. DRILLING SUBCONTRACTOR<br><u>Layne - Western</u> |                                                                            | SHEET <u>1</u> OF <u>3</u> SHEETS |  |
| 3. PROJECT<br><u>FUSRAP / SLD</u>                                                                                                                                                                                         |  |                                                     | 4. LOCATION<br><u>PSC Metals</u>                                           |                                   |  |
| 5. NAME OF DRILLER<br><u>Charles Riffle</u>                                                                                                                                                                               |  |                                                     | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>CME 75</u>                    |                                   |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>CME 75 using 4 1/2" Hollow Stem Augers</u><br><u>and 3 in x 2' split cones</u><br><u>Nat: LUD 169237</u><br><u>cal. due dates 1-25-02</u><br><u>PKG: 2400</u> |  |                                                     | 8. HOLE LOCATION                                                           |                                   |  |
| 9. SURFACE ELEVATION                                                                                                                                                                                                      |  |                                                     | 10. DATE STARTED<br><u>5-13-02</u>                                         |                                   |  |
| 11. DATE COMPLETED<br><u>5-13-02</u>                                                                                                                                                                                      |  |                                                     | 12. OVERBURDEN THICKNESS<br><u>N/A</u>                                     |                                   |  |
| 13. DEPTH DRILLED INTO ROCK<br><u>N/A</u>                                                                                                                                                                                 |  |                                                     | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |                                   |  |
| 15. DEPTH GROUNDWATER ENCOUNTERED<br><u>12.0' BGS</u>                                                                                                                                                                     |  |                                                     | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |                                   |  |
| 17. GEOTECHNICAL SAMPLES                                                                                                                                                                                                  |  | DISTURBED                                           |                                                                            | UNDISTURBED                       |  |
| 18. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                         |  | VOC                                                 |                                                                            | METALS                            |  |
| 19. TOTAL NUMBER OF CORE BOXES                                                                                                                                                                                            |  | OTHER (SPECIFY)                                     |                                                                            | OTHER (SPECIFY)                   |  |
| 20. DISPOSITION OF HOLE                                                                                                                                                                                                   |  | BACKFILLED                                          |                                                                            | MONITORING WELL                   |  |
| 21. TOTAL CORE RECOVERY %                                                                                                                                                                                                 |  | OTHER (SPECIFY)                                     |                                                                            | OTHER (SPECIFY)                   |  |
| 22. SIGNATURE OF INSPECTOR                                                                                                                                                                                                |  | 23. SIGNATURE OF INSPECTOR                          |                                                                            | 24. SIGNATURE OF INSPECTOR        |  |

LOCATION SKETCH/COMMENTS

SCALE: Not to Scale



|                             |  |                           |
|-----------------------------|--|---------------------------|
| PROJECT <u>FUSRAP / SLD</u> |  | HOLE NO. <u>SLD 70102</u> |
|-----------------------------|--|---------------------------|

| HTRW DRILLING LOG (CONTINUATION SHEET) |              |                                                                                                                               |                         |                              |                                              | HOLE NUMBER<br>SLD 70101 |
|----------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------|----------------------------------------------|--------------------------|
| PROJECT<br>FUSRAP / SLDs               |              | INSPECTOR<br>Phillip Statler                                                                                                  |                         | SHEET<br>2 of 3              |                                              |                          |
| DEPT.<br>(1)                           | DEPTH<br>(2) | DESCRIPTION OF MATERIALS<br>(3)                                                                                               | FIELD SAMPLE NO.<br>(4) | ANALYTICAL SAMPLE NO.<br>(5) | SLUG CODE<br>(6)                             | REMARKS<br>(7)           |
| SM                                     | 1            | silty sand (fine) w/ few med. gravel, loose, poorly graded, dk. brn. to blk, moist<br>few slag, few broken glass, few cinders | 8900<br>0.0             | 2.0 / 2.0                    | SLD 70102<br>5-13-02<br>1220                 | 7                        |
|                                        |              |                                                                                                                               | 8600<br>0.0             |                              | SLD 70103<br>1335                            | 7                        |
|                                        |              |                                                                                                                               | 8500<br>0.0             |                              |                                              | 8                        |
|                                        |              | few brick frags.                                                                                                              | 8400<br>0.0             |                              |                                              | 14                       |
| SM                                     | 2            |                                                                                                                               | 8100<br>6.0             | 2.0 / 2.0                    |                                              | 11                       |
|                                        | 3            | brick fragments, white tile frags.                                                                                            | 8500<br>0.0             |                              | SLD 70104<br>1345                            | 22                       |
|                                        |              |                                                                                                                               | 7900<br>0.0             |                              |                                              | 25                       |
|                                        | 4            | cinder layer                                                                                                                  | 8300<br>0.0             |                              |                                              | 16                       |
| CL                                     | 5            | few sand (fine) white                                                                                                         | 7500<br>0.0             | 2.0 / 2.0                    | SLD 70105<br>archive sample<br>4.0-9.5' SLDs | 5                        |
|                                        |              | silty clay w/ few fine sand, med. stiff, med. plast, lt. brn., moist.                                                         | 7600<br>0.0             |                              |                                              | 7                        |
|                                        |              |                                                                                                                               | 7500<br>0.0             |                              |                                              | 5                        |
|                                        | 6            | mottled brown and grey.                                                                                                       | 8100<br>0.0             |                              | 9                                            |                          |
| SM                                     | 7            | silty fine sand w/ few clay, loose, poorly graded, lt. brn., moist                                                            | 7400<br>0.0             | 2.0 / 2.0                    |                                              | 5                        |
|                                        |              |                                                                                                                               | 7800<br>0.0             |                              |                                              | 7                        |
|                                        |              |                                                                                                                               | 6900<br>0.0             |                              | archive sample<br>72-27' SLDs                | 11                       |
| CL                                     | 8            | silty clay w/ few fine sand, stiff, med. plast, lt. brn to grey, moist                                                        | 8400<br>0.0             | 1.8 / 2.0                    |                                              | 12                       |
|                                        |              |                                                                                                                               | 7500<br>0.0             |                              |                                              | 5                        |
|                                        |              |                                                                                                                               | brick frag.             |                              | 8100<br>0.0                                  |                          |
| 9                                      |              |                                                                                                                               |                         |                              |                                              |                          |

Continued on Page 3

FUSRAP / SLDs

SLD 70102

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| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                       |                              |                 |                                       |                        |                                                                                                                                                                          | WELL NUMBER<br>SLD 70102 |
|----------------------------------------|-----------------------------------------------------------------------|------------------------------|-----------------|---------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| PROJECT<br>FUSRAP/SLDS                 |                                                                       | INSPECTOR<br>Phillip Statler |                 | SHEET<br>3 of 3                       |                        |                                                                                                                                                                          |                          |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS<br>(10)                                      | FIELD OBSERVATIONS<br>(11)   | REMARKS<br>(12) | ANALYTICAL<br>SAMPLE NO.<br>(13)      | BLIND COUNT<br>(14)    | REMARKS<br>(15)                                                                                                                                                          |                          |
| CL                                     | clay turning <del>grey</del> mostly                                   | 8300<br>0.0                  |                 | SLDS<br>archive<br>sample             | 4<br>PS.               | 9.3-9.8' BGS<br>archive geo.<br>sample collected<br>at 1225 P.S.<br>(SLD 70123)                                                                                          |                          |
| 10                                     |                                                                       | 7800<br>0.0                  | no recovery     |                                       | 3<br>PS.               |                                                                                                                                                                          |                          |
|                                        |                                                                       | 7200<br>0.0                  |                 |                                       | 1<br>PS.               |                                                                                                                                                                          |                          |
| 11                                     | silty fine sand w/ few<br>clay, loose, poorly graded,<br>grey, moist. | 7600<br>0.0                  | 1.7/<br>2.0     |                                       | 2<br>PS.               | ← in-situ<br>encountered                                                                                                                                                 |                          |
|                                        |                                                                       | 8000<br>0.0                  |                 | archive<br>sample                     | 4<br>PS.               | archive geo.<br>sample from 11.2-<br>11.7' BGS. Collec-<br>ted at 1450.<br>(SLD 70124)                                                                                   |                          |
| 12                                     | saturated                                                             | N/A<br>N/A                   | no recovery     |                                       | 6<br>PS.               |                                                                                                                                                                          |                          |
|                                        |                                                                       | 7800<br>0.0                  |                 |                                       | weight<br>of<br>hammer |                                                                                                                                                                          |                          |
| 13                                     |                                                                       | 8100<br>0.0                  | 1.8/<br>2.0     |                                       | weight<br>of<br>hammer |                                                                                                                                                                          |                          |
|                                        |                                                                       | 7900<br>0.0                  |                 | archive<br>sample                     | weight<br>of<br>hammer | archive geo.<br>sample from<br>13.3-18.7' BGS<br>collected at 1500                                                                                                       |                          |
| 14                                     |                                                                       | 7800<br>0.0                  | no recovery     |                                       | 2                      |                                                                                                                                                                          |                          |
|                                        |                                                                       | 6800<br>0.0                  |                 |                                       | 1                      |                                                                                                                                                                          |                          |
| 15                                     |                                                                       | 6100<br>0.0                  | 2.0/<br>2.0     |                                       | 2                      |                                                                                                                                                                          |                          |
|                                        |                                                                       | 6200<br>0.0                  |                 |                                       | 1                      |                                                                                                                                                                          |                          |
| 16                                     |                                                                       | 6100<br>0.0                  |                 | archive<br>sample<br>(1600)<br>(1500) | 2                      | archive geo.<br>sample from<br>15.5-16.0' BGS.                                                                                                                           |                          |
|                                        | TD: 16.0' BGS<br>5-13-02<br>1600                                      |                              |                 |                                       |                        | Back ground:<br>NaI: 8400<br>PID: 0.0<br>Backfilled w/<br>bags of<br>Bent. slurry<br>grout @ 20-30%<br>1.5 bags/30 gal. H <sub>2</sub> O<br>Drum #1 for<br>soil cuttings |                          |

FUSRAP / SLDS

SLD 70102

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                 |  | DISTRICT <u>St. Louis</u>                                              |  | HOLE NUMBER <u>SLD70105</u>                         |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------|--|------------------------------------------------------------------------|--|-----------------------------------------------------|--|
| 1. COMPANY NAME <u>IT Corp</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                 |  | 2. DRILLING SUBCONTRACTOR <u>Layne Western</u>                         |  | SHEET <u>1</u> OF <u>3</u> SHEETS                   |  |
| 3. PROJECT <u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                 |  | 4. LOCATION <u>PSC Metals</u>                                          |  |                                                     |  |
| 5. NAME OF DRILLER <u>Charles Rife</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                 |  | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>CME 75</u>                   |  |                                                     |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>CME 75 using</u><br><u>Hollow Stem Augers 4.25"</u><br><u>1 3" x 2' Split Spoon</u><br><u>NAT LUD 172059</u><br><u>Cal Due Date 12/03/02</u>                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                 |  | 8. HOLE LOCATION                                                       |  |                                                     |  |
| 9. SURFACE ELEVATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                                 |  | 10. DATE STARTED <u>DJ</u><br><u>5-15-02</u> 5-14-02                   |  |                                                     |  |
| 11. DATE COMPLETED <u>5-15-02</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                 |  | 12. OVERBURDEN THICKNESS <u>NA</u>                                     |  |                                                     |  |
| 13. DEPTH DRILLED INTO ROCK <u>NA</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                 |  | 15. DEPTH GROUNDWATER ENCOUNTERED <u>8.5' bgs</u>                      |  |                                                     |  |
| 14. TOTAL DEPTH OF HOLE <u>16.5' bgs</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                 |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>NA</u> |  |                                                     |  |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>NA</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                 |  | 18. GEOTECHNICAL SAMPLES                                               |  |                                                     |  |
| DISTURBED <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | UNDISTURBED <input checked="" type="checkbox"/> |  | 19. TOTAL NUMBER OF CORE BOXES <u>0</u>                                |  |                                                     |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | VOC <input checked="" type="checkbox"/>         |  | METALS <input checked="" type="checkbox"/>                             |  | OTHER (SPECIFY) <u>RAD</u>                          |  |
| 21. TOTAL CORE RECOVERY <u>0%</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | 22. DISPOSITION OF HOLE                         |  | BACKFILLED <input checked="" type="checkbox"/>                         |  | MONITORING WELL <input checked="" type="checkbox"/> |  |
| 23. SIGNATURE OF INSPECTOR <u>Don One</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | 24. SCALE: <u>Not to scale</u>                  |  | 25. LOCATION SKETCH/COMMENTS                                           |  |                                                     |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; left: 10%;">N ↑</div> <div style="position: absolute; top: 40%; left: 10%;">PSC Metals Administration Building</div> <div style="position: absolute; top: 60%; left: 10%;">Parking Lot</div> <div style="position: absolute; top: 70%; left: 10%;">HALL ST</div> <div style="position: absolute; top: 45%; left: 30%;">Telephone Pole</div> <div style="position: absolute; top: 50%; left: 30%;">SLD70105 (initial hole)</div> <div style="position: absolute; top: 55%; left: 30%;">SLD70105 (offset hole)</div> </div> |  |                                                 |  |                                                                        |  |                                                     |  |
| PROJECT <u>FUSRAP</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                 |  |                                                                        |  | HOLE NO.                                            |  |



Nov 98

Background 6200

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                      |                       |               |                               |                  |                                                                                       | HOLE NUMBER |
|----------------------------------------|--------------------------------------------------------------------------------------|-----------------------|---------------|-------------------------------|------------------|---------------------------------------------------------------------------------------|-------------|
| PROJECT                                |                                                                                      | INSPECTOR             |               | RECOVERY                      |                  | SHEET                                                                                 |             |
|                                        |                                                                                      | Don Jones             |               |                               |                  | 2 of 3                                                                                |             |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                             | FIELD SAMPLE NO. (ft) | RECOVERY (ft) | ANALYTICAL SAMPLE NO. (ft)    | BLIND COUNT (ft) | REMARKS                                                                               |             |
|                                        | Cover material Asphalt (0-0.25') Concrete (0.25-0.5')                                | 6700                  | 0.0           | SLD 70105 5-14-02             | 1130             | Augered to 1.5' bgs (5-15-02)                                                         |             |
| SP                                     | Silty sand (Fine) with med gravel, loose, poorly graded, Wet                         | 6,100                 | 0.0           | SLD 70105 1315 5-14-02        |                  | on offset hole to continue where initial boring hit refusal on 5-14-02                | 1           |
|                                        | 200-ly Graded                                                                        | 6,500                 | 0.0           |                               |                  | DS 5-16-02                                                                            |             |
| SW                                     | Sand with few silt, med to coarse, dark brown, loose to medium, few cinders, moist   | 6700                  | 0             |                               | 2                | Only pushed spoon 1' to complete 2' sample with respect to yesterday's 1.0' recovery. | 2           |
|                                        |                                                                                      | 6800                  | 0             |                               | 14               |                                                                                       |             |
|                                        |                                                                                      | 7000                  | 0             | 2.0 1.0 DS                    | 9                |                                                                                       |             |
| 3                                      | Increasing amount of cinders                                                         | 6800                  | 0             | 2.0 1.0 DS                    | 13               | Compression                                                                           | 3           |
|                                        |                                                                                      | 6900                  | 0             |                               | 8                |                                                                                       |             |
| 4                                      | Few coal                                                                             | 6900                  | 0             |                               | 5                |                                                                                       | 4           |
|                                        |                                                                                      | 6900                  | 0             |                               | 5                |                                                                                       |             |
| SM                                     | Silty sand, fine to med, dark brown, loose to medium, few cinders, moist, trace coal | 6200                  | 0             | 1.7 2.0 DS                    | 5                | Geological sample                                                                     | 5           |
|                                        |                                                                                      | 6500                  | 0             |                               | 31               |                                                                                       |             |
| GP                                     | Silty gravel, fine, loose, dark brown, moist, few sand, (med)                        | 6100                  | 0             | Archive sample collected 1345 | 25               | Geological sample                                                                     | 6           |
|                                        |                                                                                      |                       | No Recovery   |                               | 2                |                                                                                       |             |
| 7                                      |                                                                                      |                       |               |                               | 2                |                                                                                       | 7           |
|                                        |                                                                                      |                       |               |                               | 3                |                                                                                       |             |
| 8                                      |                                                                                      |                       |               |                               | 2                |                                                                                       | 8           |
|                                        |                                                                                      |                       |               |                               | 3                |                                                                                       |             |
| OS                                     | Continued on next page                                                               |                       |               |                               |                  |                                                                                       | 9           |

EM 1110-1-4000  
1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |           |                                            |                           |                                                                                        |                               |                 |
|----------------------------------------|-----------|--------------------------------------------|---------------------------|----------------------------------------------------------------------------------------|-------------------------------|-----------------|
| PROJECT FUSRAP/SLDS                    |           | INSPECTOR                                  | RECOVERY                  |                                                                                        | HOLE NUMBER SLD 7015          |                 |
| ELEV (1)                               | DEPTH (2) | DESCRIPTION OF MATERIALS (3)               | FIELD LOGGING RESULTS (4) | RECOVERY SAMPLE OR RECOVERY NO. (5)                                                    | ANALYTICAL SAMPLE NO. (6)     | SLDS COUNTY (7) |
|                                        |           | Same as Saturated above @ 9.5              | 6500                      |                                                                                        | Archive sample collected 1405 | Weight          |
| CL                                     | 9.5       | Silty clay, soft, light brown moist to wet | 6700                      | 2.0/2.0                                                                                |                               | 5               |
|                                        |           | olive grey                                 | 6400                      |                                                                                        |                               | 10              |
| GM                                     | 10.5      | fine DI silty gravel, few clay few cinders | 7600                      |                                                                                        | Archive sample collected 1410 | 3               |
|                                        |           | wood (weathered) and saturated             | 6700                      |                                                                                        |                               | 1               |
| CL                                     | 11.5      | Silty clay, soft, dark brown/grey wet      | 6700                      | 1.7/2.0                                                                                |                               | 2               |
|                                        |           |                                            | 6700                      |                                                                                        | Archive sample 1420           | 2               |
|                                        |           | wood, grey (possibly, processed)           | 6700                      |                                                                                        |                               | 2               |
|                                        | 12.5      | (In-situ)                                  | 6700                      | NO RECOVERY                                                                            | DI                            | 2               |
|                                        |           |                                            | 6600                      | 1.8/2.0                                                                                | Archive sample 1445           | 2               |
|                                        |           |                                            | 6300                      |                                                                                        |                               | 2               |
|                                        | 13.5      |                                            | 6300                      |                                                                                        |                               | 1               |
|                                        |           |                                            | 6700                      |                                                                                        |                               | 2               |
|                                        | 14.5      | wood (twigs)                               | 6700                      | NO RECOVERY                                                                            |                               | weight          |
|                                        |           |                                            | 6700                      | 2.0/2.0                                                                                |                               | weight          |
|                                        | 15.5      |                                            | 6700                      |                                                                                        |                               | weight          |
|                                        |           |                                            | 6600                      |                                                                                        |                               | 3               |
|                                        | 16.5      | TD=16.5' bgs<br>Finish Time 1500           |                           |                                                                                        |                               |                 |
|                                        |           |                                            |                           | Back Filled hole with bentonite slurry to 14.5' bgs<br>Background: 6200<br>P.I.D = 0.0 | (DI) Soil Cuttings in Drum #2 |                 |

FUSRAP/SLDS

SLD 7015

| HTRW DRILLING LOG                                                                                                              |  |                                                |  | DISTRICT <u>St. Louis</u>                               |  | HOLE NUMBER: <u>SLD 70115</u>                                           |  |
|--------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------|--|---------------------------------------------------------|--|-------------------------------------------------------------------------|--|
| 1. COMPANY NAME <u>Shaw, E &amp; I</u>                                                                                         |  |                                                |  | 2. DRILLING SUBCONTRACTOR <u>Layne - Western</u>        |  | SHEET <u>1</u> OF <u>3</u> SHEETS                                       |  |
| 3. PROJECT <u>FUSRAP/SLDS</u>                                                                                                  |  |                                                |  | 4. LOCATION <u>PSC Metals</u>                           |  |                                                                         |  |
| 5. NAME OF DRILLER <u>Charles Riffle</u>                                                                                       |  |                                                |  | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>CME 75</u>    |  |                                                                         |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>CME 75 using 4 1/4" Hollow Stem Augers and 3 in. x 2' split spoon</u> |  |                                                |  | 8. HOLE LOCATION                                        |  |                                                                         |  |
| <u>Nat. LUD 172059</u>                                                                                                         |  |                                                |  | 9. SURFACE ELEVATION                                    |  |                                                                         |  |
| <u>cal. due date 12-13-02</u>                                                                                                  |  |                                                |  | 10. DATE STARTED <u>5-20-02</u>                         |  | 11. DATE COMPLETED <u>5-20-02</u>                                       |  |
| <u>PLD</u>                                                                                                                     |  |                                                |  | 15. DEPTH GROUNDWATER ENCOUNTERED <u>8.0' BGS</u>       |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u> |  |
| 12. OVERBURDEN THICKNESS <u>N/A</u>                                                                                            |  |                                                |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u> |  |                                                                         |  |
| 13. DEPTH DRILLED INTO ROCK <u>N/A</u>                                                                                         |  |                                                |  | 14. TOTAL DEPTH OF HOLE <u>10.0' BGS</u>                |  |                                                                         |  |
| 18. GEOTECHNICAL SAMPLES                                                                                                       |  | DISTURBED <input checked="" type="checkbox"/>  |  | UNDISTURBED <input checked="" type="checkbox"/>         |  | 19. TOTAL NUMBER OF CORE BOXES <u>0</u>                                 |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                              |  | VOC <input checked="" type="checkbox"/>        |  | METALS <input checked="" type="checkbox"/>              |  | OTHER (SPECIFY) <u>RAD</u>                                              |  |
| 22. DISPOSITION OF HOLE                                                                                                        |  | BACKFILLED <input checked="" type="checkbox"/> |  | MONITORING WELL <input checked="" type="checkbox"/>     |  | 23. SIGNATURE OF INSPECTOR <u>Phillip M. Stahl</u>                      |  |
| LOCATION SKETCH/COMMENTS                                                                                                       |  |                                                |  | SCALE: <u>Not to Scale</u>                              |  |                                                                         |  |
|                                                                                                                                |  |                                                |  |                                                         |  |                                                                         |  |
| PROJECT <u>FUSRAP / SLDS</u>                                                                                                   |  |                                                |  |                                                         |  | HOLE NO. <u>SLD 70115</u>                                               |  |

1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                 |                                     |                   |                                   |                     | HOLE NUMBER<br>SLD 70115                                            |  |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------|-----------------------------------|---------------------|---------------------------------------------------------------------|--|
| PROJECT<br>FUSRAP / SLDs               |                                                                                                                 | INSPECTOR<br>Phillip Stalter        |                   | SHEET<br>2 OF 3                   |                     | SHEET NO.                                                           |  |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS<br>(1-4)                                                                               | FIELD SCREENING<br>RESULTS<br>(1-1) | RECOVERY<br>(1-2) | ANALYTICAL<br>SAMPLE NO.<br>(1-3) | BLOW COUNT<br>(1-4) | REMARKS<br>(1-5)                                                    |  |
| 1                                      | silty sand (fine) w/ few med gravel and clay, loose, poorly graded, dk. brn., dry, few cinders and brick frags. | 6500<br>0.0                         | 1.6/<br>2.0       | SLD 70115-1<br>5-20-02<br>1055    | 6                   |                                                                     |  |
|                                        |                                                                                                                 | 6000<br>0.0                         |                   |                                   | 18                  |                                                                     |  |
|                                        |                                                                                                                 | 6300<br>0.0                         |                   | SLD 70116<br>1106                 | 22                  |                                                                     |  |
|                                        |                                                                                                                 | 5600<br>0.0                         |                   | no recovery                       | 7                   |                                                                     |  |
| 2                                      | sandstone frags.                                                                                                | 6200<br>0.0                         | 1.3/<br>2.0       | SLD 70117<br>1115                 | 10                  |                                                                     |  |
|                                        |                                                                                                                 | 5800<br>0.0                         |                   |                                   | 11                  |                                                                     |  |
|                                        |                                                                                                                 | 6100<br>0.0                         |                   | no recovery                       | 9                   |                                                                     |  |
| 3                                      | brick frags<br>piece of porcelain                                                                               | N/A<br>N/A                          | no recovery       |                                   | 5                   |                                                                     |  |
|                                        |                                                                                                                 | 6100<br>0.0                         |                   |                                   | 2                   |                                                                     |  |
| 4                                      | P.S.<br>silty sand w/ few clay, loose, poorly graded, grs, moist.                                               | 6100<br>0.0                         | 1.8/<br>2.0       | archive sample<br>1120            | 2                   | in-situ encountered<br>archive sample from 4.0-4.5' BGS (SLD 70128) |  |
|                                        |                                                                                                                 | 6000<br>0.0                         |                   |                                   | 5                   |                                                                     |  |
|                                        |                                                                                                                 | 6100<br>0.0                         |                   |                                   | 6                   |                                                                     |  |
|                                        |                                                                                                                 | 5900<br>0.0                         |                   | no recovery                       | 8                   |                                                                     |  |
| 5                                      |                                                                                                                 | 6200<br>0.0                         | 1.8/<br>2.0       |                                   | 2                   |                                                                     |  |
|                                        |                                                                                                                 | 6500<br>0.0                         |                   |                                   | 5                   |                                                                     |  |
|                                        |                                                                                                                 | 6000<br>0.0                         |                   | archive sample<br>1135            | 6                   |                                                                     |  |
| 6                                      | piece of wood                                                                                                   | 5900<br>0.0                         | no recovery       |                                   | 7                   |                                                                     |  |
|                                        |                                                                                                                 | 6100<br>0.0                         |                   |                                   | 3                   |                                                                     |  |
| 7                                      |                                                                                                                 | 5700<br>0.0                         | 1.8/<br>2.0       |                                   | 4                   |                                                                     |  |
|                                        |                                                                                                                 | 6100<br>0.0                         |                   |                                   | 3                   |                                                                     |  |
| 8                                      |                                                                                                                 | 5700<br>0.0                         | no recovery       |                                   | 7                   |                                                                     |  |
|                                        |                                                                                                                 | 6100<br>0.0                         |                   |                                   | 3                   |                                                                     |  |
| 9                                      | clay increasing                                                                                                 | 5700<br>0.0                         | no recovery       |                                   | 7                   |                                                                     |  |
|                                        |                                                                                                                 | 6100<br>0.0                         |                   |                                   | 3                   |                                                                     |  |
| 9                                      | Continued on<br>Page 3                                                                                          | 5700<br>0.0                         | no recovery       |                                   | 7                   |                                                                     |  |
|                                        |                                                                                                                 | 6100<br>0.0                         |                   |                                   | 3                   |                                                                     |  |

Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |              |                                  |                                   |                               |                                 | HOLE NUMBER<br>SLD 70115 |                                                                                                                                                                            |
|----------------------------------------|--------------|----------------------------------|-----------------------------------|-------------------------------|---------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROJECT<br>FUSRAP/SLDS                 |              | INSPECTOR<br>Phillip Statter     |                                   |                               |                                 | SHEET<br>3 of 3 SHEETS   |                                                                                                                                                                            |
| ITEM<br>(1)                            | DEPTH<br>(2) | DESCRIPTION OF MATERIALS<br>(3)  | FIELD SAMPLES<br>RECOVERED<br>(4) | RECOVERY<br>PERCENTAGE<br>(5) | ANALYTICAL<br>SAMPLE NO.<br>(6) | BLIND COUNT<br>(7)       | REMARKS<br>(8)                                                                                                                                                             |
| SM                                     | 10           | Same as above                    | 5600<br>0.0                       |                               | archive sample 182h             | 3                        | archive sample 9.3' - 9.8' BGS                                                                                                                                             |
|                                        |              |                                  | 5500<br>0.0                       | no recovery                   |                                 | 3                        |                                                                                                                                                                            |
|                                        |              | TD: 10.0' BGS<br>5-20-02<br>1315 |                                   |                               |                                 |                          | Background:<br>NaI: 6400<br>PID: 0.0<br>Soil Cuttings<br>in Drum #1<br><br>Back filled<br>w/ Bentonite<br>slurry grout<br>@ 20-30%<br>3/4 bags/15 gal<br>H <sub>2</sub> O. |

PROJECT FUSRAP/SLDS SLD 70115

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 | DISTRICT                                                                   | HOLE NUMBER                                           |                 |                 |                                            |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                 |                 |                 |                 |          |          |          |          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------|-------------------------------------------------------|-----------------|-----------------|--------------------------------------------|----------|----------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------|-----------------|-----------------|-----------------|----------|----------|----------|----------|
| 1. COMPANY NAME<br><i>Shaw, E &amp; I</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 | 2. DRILLING SUBCONTRACTOR<br><i>Layne-Western</i>                          | <i>SLD 70118</i><br>SHEET <i>1</i> OF <i>3</i> SHEETS |                 |                 |                                            |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                 |                 |                 |                 |          |          |          |          |
| 3. PROJECT<br><i>FUSRAP/SLDS</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 | 4. LOCATION<br><i>BSC Metalb</i>                                           |                                                       |                 |                 |                                            |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                 |                 |                 |                 |          |          |          |          |
| 5. NAME OF DRILLER<br><i>Charles Riffle</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><i>CME 75</i>                    |                                                       |                 |                 |                                            |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                 |                 |                 |                 |          |          |          |          |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><i>CME 75 using 4 1/4" Hollow Stem Augers and 3 in x 2' split spoon. Not: LUD 172059 cal. due date: 12-18-02</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 | 8. HOLE LOCATION                                                           |                                                       |                 |                 |                                            |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                 |                 |                 |                 |          |          |          |          |
| 9. SURFACE ELEVATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 | 10. DATE STARTED<br><i>5-21-02</i>                                         |                                                       |                 |                 |                                            |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                 |                 |                 |                 |          |          |          |          |
| 11. DATE COMPLETED<br><i>5-21-02</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 | 12. OVERBURDEN THICKNESS<br><i>N/A</i>                                     |                                                       |                 |                 |                                            |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                 |                 |                 |                 |          |          |          |          |
| 13. DEPTH DRILLED INTO ROCK<br><i>N/A</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 | 15. DEPTH GROUNDWATER ENCOUNTERED<br><i>2.0' BGS</i>                       |                                                       |                 |                 |                                            |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                 |                 |                 |                 |          |          |          |          |
| 14. TOTAL DEPTH OF HOLE<br><i>18.0' BGS</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><i>N/A</i> |                                                       |                 |                 |                                            |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                 |                 |                 |                 |          |          |          |          |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><i>N/A</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 | 18. GEOTECHNICAL SAMPLES                                                   |                                                       |                 |                 |                                            |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                 |                 |                 |                 |          |          |          |          |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:50%;">DISTURBED</th> <th style="width:50%;">UNDISTURBED</th> </tr> <tr> <td style="text-align: center;"><i>0</i></td> <td style="text-align: center;"><i>0</i></td> </tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 | DISTURBED                                                                  | UNDISTURBED                                           | <i>0</i>        | <i>0</i>        | 19. TOTAL NUMBER OF CORE BOXES<br><i>0</i> |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                 |                 |                 |                 |          |          |          |          |
| DISTURBED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | UNDISTURBED     |                                                                            |                                                       |                 |                 |                                            |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                 |                 |                 |                 |          |          |          |          |
| <i>0</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <i>0</i>        |                                                                            |                                                       |                 |                 |                                            |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                 |                 |                 |                 |          |          |          |          |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 | 21. TOTAL CORE RECOVERY %                                                  |                                                       |                 |                 |                                            |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                 |                 |                 |                 |          |          |          |          |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:25%;">VOC</th> <th style="width:25%;">METALS</th> <th style="width:25%;">OTHER (SPECIFY)</th> <th style="width:25%;">OTHER (SPECIFY)</th> </tr> <tr> <td style="text-align: center;"><i>0</i></td> <td style="text-align: center;"><i>0</i></td> <td style="text-align: center;"><i>0</i></td> <td style="text-align: center;"><i>0</i></td> </tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 | VOC                                                                        | METALS                                                | OTHER (SPECIFY) | OTHER (SPECIFY) | <i>0</i>                                   | <i>0</i> | <i>0</i> | <i>0</i> | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:25%;">OTHER (SPECIFY)</th> <th style="width:25%;">OTHER (SPECIFY)</th> <th style="width:25%;">OTHER (SPECIFY)</th> <th style="width:25%;">OTHER (SPECIFY)</th> </tr> <tr> <td style="text-align: center;"><i>0</i></td> <td style="text-align: center;"><i>0</i></td> <td style="text-align: center;"><i>0</i></td> <td style="text-align: center;"><i>0</i></td> </tr> </table> |  | OTHER (SPECIFY) | OTHER (SPECIFY) | OTHER (SPECIFY) | OTHER (SPECIFY) | <i>0</i> | <i>0</i> | <i>0</i> | <i>0</i> |
| VOC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | METALS          | OTHER (SPECIFY)                                                            | OTHER (SPECIFY)                                       |                 |                 |                                            |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                 |                 |                 |                 |          |          |          |          |
| <i>0</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <i>0</i>        | <i>0</i>                                                                   | <i>0</i>                                              |                 |                 |                                            |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                 |                 |                 |                 |          |          |          |          |
| OTHER (SPECIFY)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | OTHER (SPECIFY) | OTHER (SPECIFY)                                                            | OTHER (SPECIFY)                                       |                 |                 |                                            |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                 |                 |                 |                 |          |          |          |          |
| <i>0</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <i>0</i>        | <i>0</i>                                                                   | <i>0</i>                                              |                 |                 |                                            |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                 |                 |                 |                 |          |          |          |          |
| 22. DISPOSITION OF HOLE<br><i>yes</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 | 23. QUALITY CONTROL INSPECTOR<br><i>Phillip M. Stottle</i>                 |                                                       |                 |                 |                                            |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                 |                 |                 |                 |          |          |          |          |
| <div style="display: flex; justify-content: space-between;"> <div>LOCATION SKETCH/COMMENTS</div> <div>SCALE: <i>Not to Scale</i></div> </div> <div style="border: 1px dotted black; height: 300px; position: relative; margin-top: 10px;"> <div style="position: absolute; top: 10%; left: 10%; font-size: 2em;">McKinley Bridge</div> <div style="position: absolute; top: 15%; left: 15%;"> <i>monitoring well</i><br/> <i>SLD 70118</i> </div> <div style="position: absolute; top: 25%; left: 5%;"> <i>bin</i><br/> <i>bin</i> </div> <div style="position: absolute; top: 45%; left: 10%;"> <i>fence</i> </div> <div style="position: absolute; top: 65%; left: 55%;"> <div style="border: 1px solid black; padding: 10px; width: 150px; height: 80px; display: flex; align-items: center; justify-content: center;"> <i>Bldg.</i> </div> </div> <div style="position: absolute; top: 10%; right: 10%; text-align: center;"> <br/> <i>N</i> </div> </div> |                 |                                                                            |                                                       |                 |                 |                                            |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                 |                 |                 |                 |          |          |          |          |
| PROJECT<br><i>FUSRAP/SLDS</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 | HOLE NO.<br><i>SLD 70118</i>                                               |                                                       |                 |                 |                                            |          |          |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                 |                 |                 |                 |          |          |          |          |

Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |              |                                                                                                  |                         |                                       |                                 |                      | HOLE NUMBER<br>SLD 70112 |     |
|----------------------------------------|--------------|--------------------------------------------------------------------------------------------------|-------------------------|---------------------------------------|---------------------------------|----------------------|--------------------------|-----|
| FORMAL FUSRAP/SLDS                     |              | INSPECTOR Phillip Statter                                                                        |                         | SHEET 2 of 3                          |                                 | SHEETS               |                          |     |
| ELEV.<br>(1)                           | DEPTH<br>(2) | DESCRIPTION OF MATERIALS<br>(3)                                                                  | FIELD SAMPLE NO.<br>(4) | RECOVERY<br>(5)                       | ANALYTICAL<br>SAMPLE NO.<br>(6) | BLOW COUNT<br>(7)    | REMARKS<br>(8)           |     |
| SM                                     | 1            | silty sand w/med. gravel<br>med dense, poorly graded,<br>dk. brn., dry, piece of<br>rubber hose. | 5100                    | 1.8/<br>2.0                           | SLD<br>70118<br>5-21-02<br>1040 | 28                   | rough<br>augering        |     |
|                                        |              |                                                                                                  | 4900                    |                                       | 0.0                             |                      |                          | 128 |
|                                        |              |                                                                                                  | 5100                    |                                       | 0.0                             |                      |                          | 28  |
|                                        |              |                                                                                                  | -0.0                    |                                       |                                 |                      |                          |     |
|                                        |              |                                                                                                  | 5600                    |                                       | 0.0                             | SLD<br>70119<br>1045 |                          | 32  |
|                                        |              |                                                                                                  | 5400                    |                                       | 0.0                             | no recovery          |                          | 21  |
|                                        |              |                                                                                                  | 4800                    |                                       | 0.0                             |                      |                          | 42  |
|                                        |              |                                                                                                  | 4700                    |                                       | 0.0                             |                      |                          | 76  |
|                                        |              |                                                                                                  | 4900                    |                                       | 0.0                             | SLD<br>70117<br>PS   |                          | 30  |
|                                        |              |                                                                                                  | 4400                    |                                       | 0.0                             | SLD<br>70120<br>1100 |                          | 4   |
| 5000                                   | 0.0          | 1.7/<br>2.0                                                                                      | 4                       |                                       |                                 |                      |                          |     |
| 4700                                   | 0.0          |                                                                                                  | 6                       |                                       |                                 |                      |                          |     |
| 4600                                   | 0.0          |                                                                                                  | 4                       |                                       |                                 |                      |                          |     |
| 4400                                   | 0.0          |                                                                                                  | 2                       |                                       |                                 |                      |                          |     |
| 5400                                   | 0.0          |                                                                                                  | 5                       | archive sample<br>from 6.3-6.8<br>BGs |                                 |                      |                          |     |
| N/A                                    | N/A          |                                                                                                  | no recovery             |                                       | 7                               |                      |                          |     |
| N/A                                    | N/A          |                                                                                                  | recovery                |                                       | 6                               |                      |                          |     |
| N/A                                    | N/A          |                                                                                                  | no recovery             |                                       | 6                               |                      |                          |     |
| N/A                                    | N/A          |                                                                                                  | recovery                |                                       | 3                               |                      |                          |     |
| 7                                      |              |                                                                                                  |                         |                                       |                                 |                      |                          |     |
| 8                                      |              |                                                                                                  |                         |                                       |                                 |                      |                          |     |
| 9                                      |              |                                                                                                  |                         |                                       |                                 |                      |                          |     |

Continued on  
Page 3

FUSRAP/SLDS

SLD 70112



EM 1110-1-4000

1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |              |                                                                                                 |                                                                                                   |                        |                                 |                                                                      | HOLE NUMBER                              |
|----------------------------------------|--------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|------------------------|---------------------------------|----------------------------------------------------------------------|------------------------------------------|
| PROJECT                                |              | INSPECTOR                                                                                       |                                                                                                   |                        |                                 |                                                                      | SHEET                                    |
| FUSRAP/SLDS                            |              | Phillip Statler                                                                                 |                                                                                                   |                        |                                 |                                                                      | 3 OF 3                                   |
| ELEV.<br>(1)                           | DEPTH<br>(2) | DESCRIPTION OF MATERIALS<br>(3)                                                                 | FIELD OBSERVATIONS<br>(4)                                                                         | RECOVERY<br>(5)        | ANALYTICAL<br>SAMPLE NO.<br>(6) | SLUG COUNT<br>(7)                                                    | REMARKS<br>(8)                           |
|                                        |              |                                                                                                 | N/A<br>N/A                                                                                        | no<br>recovery         |                                 | 3                                                                    |                                          |
|                                        |              |                                                                                                 | N/A<br>N/A                                                                                        |                        |                                 | 6                                                                    |                                          |
| SM                                     | 10           | silty sand (fine) w/<br>med. gravel, loose,<br>poorly graded, dk. brn. to<br>gr, wet, saturated | 4700<br>0.0                                                                                       | 1.1/<br>2.0            |                                 | 2                                                                    |                                          |
|                                        | 11           | piece of wood                                                                                   | 4800<br>0.0                                                                                       |                        | archive<br>sample<br>1225       | 130                                                                  | archive sample<br>from 10.6-11.1'<br>BGS |
|                                        |              |                                                                                                 | 5000<br>0.0                                                                                       | no<br>recovery         |                                 | 78                                                                   | hit obstruct-<br>ion @<br>11.0'          |
|                                        | 12           |                                                                                                 | N/A<br>N/A                                                                                        |                        |                                 | N/A                                                                  | (piece of<br>dense wood)<br>(weathered)  |
|                                        |              |                                                                                                 | N/A<br>N/A                                                                                        | P.S.<br>no<br>recovery |                                 | 175                                                                  |                                          |
|                                        | 13           |                                                                                                 | N/A<br>N/A                                                                                        |                        |                                 | 3                                                                    |                                          |
|                                        |              |                                                                                                 | N/A<br>N/A                                                                                        | no<br>recovery         |                                 | 2                                                                    |                                          |
|                                        | 14           | silty clay w/ few wood<br>frags, soft, med. plast.,<br>grey, saturated                          | N/A<br>N/A                                                                                        |                        |                                 | 2                                                                    | in-situ<br>encountered                   |
|                                        |              |                                                                                                 | 4900<br>0.0                                                                                       | 1.6/<br>2.0            |                                 | weight<br>of<br>hammer                                               |                                          |
|                                        | 15           |                                                                                                 | 5100<br>0.0                                                                                       |                        |                                 | 2                                                                    |                                          |
| CL                                     |              |                                                                                                 | 5100<br>0.0                                                                                       |                        | archive<br>sample<br>1400       | 2                                                                    | archive sample<br>from 15.1-15.5'<br>BGS |
|                                        | 16           | wood frags. absent.                                                                             | N/A<br>N/A                                                                                        | no<br>recovery         |                                 | 3                                                                    | (SLD 7013P<br>-1, 2)                     |
|                                        |              |                                                                                                 | 4500<br>0.0                                                                                       |                        |                                 | 2                                                                    |                                          |
|                                        | 17           |                                                                                                 | 5000<br>0.0                                                                                       | 2.0/<br>2.0            |                                 | 3                                                                    |                                          |
|                                        |              |                                                                                                 | 5100<br>0.0                                                                                       |                        |                                 | 4                                                                    |                                          |
|                                        | 18           |                                                                                                 | 4900<br>0.0                                                                                       |                        | archive<br>sample<br>1410       | 4                                                                    | archive sample<br>from 17.5-18.0'<br>BGS |
| TD: 18.0' BGS<br>5-21-02<br>1410       |              |                                                                                                 | Boring backfilled w/<br>bentonite slurry<br>grout (5 bags / 90 gal. H <sub>2</sub> O)<br>100 P.S. |                        |                                 | Background:<br>Nat: 5,100<br>PIP: 0.0<br>Soil cuttings in<br>Drum #1 |                                          |

FUSRAP/SLDS

SLD 70118

| HTRW DRILLING LOG                                                                                             |  |                                |  | DISTRICT                                                            |  | HOLE NUMBER     |  |
|---------------------------------------------------------------------------------------------------------------|--|--------------------------------|--|---------------------------------------------------------------------|--|-----------------|--|
| 1. COMPANY NAME<br>Shaw E & I                                                                                 |  |                                |  | St. Louis                                                           |  | SLD 70466       |  |
| 2. DRILLING SUBCONTRACTOR<br>MES, Inc.                                                                        |  |                                |  |                                                                     |  | SHEET<br>1 of 3 |  |
| 3. PROJECT<br>FUS RAP / SLDs                                                                                  |  |                                |  | 4. LOCATION<br>City of Venice, IL VP                                |  |                 |  |
| 5. NAME OF DRILLER<br>Chris Anthony                                                                           |  |                                |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120            |  |                 |  |
| 7. SIZE AND TYPE OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using HSA and<br>3" x 2' Split Spoon |  |                                |  | 8. HOLE LOCATION<br>N/A                                             |  |                 |  |
|                                                                                                               |  |                                |  | 9. SURFACE ELEVATION<br>N/A                                         |  |                 |  |
| 10. DATE STARTED<br>9-5-02                                                                                    |  |                                |  | 11. DATE COMPLETED<br>9-5-02                                        |  |                 |  |
| 12. OTHER DATA THICKNESS<br>N/A                                                                               |  |                                |  | 13. DEPTH CORRELATION DISCONTINUED<br>N/A                           |  |                 |  |
| 14. DEPTH DRILLED INTO ROCK<br>N/A                                                                            |  |                                |  | 15. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A |  |                 |  |
| 16. TOTAL DEPTH OF HOLE<br>12.0 BGS                                                                           |  |                                |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                 |  |                 |  |
| 18. GEOTECHNICAL SAMPLES                                                                                      |  | 19. TOTAL NUMBER OF CORE BOXES |  |                                                                     |  |                 |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                             |  | 21. TOTAL CORE RECOVERED       |  |                                                                     |  |                 |  |
| 22. DEPOSITION OF HOLE                                                                                        |  | 23. OTHER DATA OF RESPECTOR    |  |                                                                     |  |                 |  |
| Yes                                                                                                           |  | No                             |  |                                                                     |  |                 |  |
| LOCATION SKETCH/COMMENTS<br>North<br>                                                                         |  |                                |  |                                                                     |  |                 |  |
| SCALE: Not to scale                                                                                           |  |                                |  |                                                                     |  |                 |  |
| PROJECT<br>FUS RAP / SLDs                                                                                     |  |                                |  | HOLE NO.<br>SLD 70466                                               |  |                 |  |

EM 1110-1-4000  
1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                              |                             |                 |                                 |                            | HOLE NUMBER<br>SLD 70466                         |
|----------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------|-----------------|---------------------------------|----------------------------|--------------------------------------------------|
| PROJECT<br>FUSRAP/SLDS                 |                                                                                              | LOCATION<br>Phillip Station |                 | SHEET 2 OF 3                    |                            |                                                  |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS                                                                     | WATER<br>DEPTH<br>(ft)      | RECOVERY<br>(%) | SLD<br>NUMBER<br>(if any)       | SLDS<br>CORRECTION<br>(ft) | REMARKS                                          |
| 1.0                                    | Silty fine sand w/<br>few med. gravel, med.<br>dense, poorly graded,<br>H. brn, dry, graded, | 5900<br>0.0                 | 1.3/<br>2.0     | SLD<br>70466<br>1080            | 7                          |                                                  |
|                                        |                                                                                              | 6100<br>0.0                 |                 | SLD<br>70467<br>1090            | 9                          |                                                  |
|                                        |                                                                                              | 6000<br>0.0                 | no<br>recovery  |                                 | 13                         |                                                  |
| 2.0                                    |                                                                                              | N/A<br>N/A                  |                 |                                 | 11                         |                                                  |
|                                        |                                                                                              | 6100<br>0.0                 | 1.6/<br>2.0     |                                 | 5                          |                                                  |
|                                        | few cinders and<br>slag.                                                                     | 6600<br>0.0                 |                 |                                 | 8                          |                                                  |
| 3.0                                    |                                                                                              | 6800<br>0.0                 |                 | SLD<br>70468<br>1050            | 9                          |                                                  |
|                                        |                                                                                              | 6900<br>0.0                 | no<br>recovery  |                                 | 12                         |                                                  |
| 4.0                                    | cinders and slag<br>increasing                                                               | 5600<br>0.0                 | 1.8/<br>2.0     | SLD<br>70469<br>1100            | 6                          |                                                  |
|                                        |                                                                                              | 7200<br>0.0                 |                 |                                 | 4                          |                                                  |
| 5.0                                    | brick frags.                                                                                 | 5800<br>0.0                 |                 |                                 | 11                         |                                                  |
|                                        | concrete frag.                                                                               | 6100<br>0.0                 | no<br>recovery  |                                 | 9                          |                                                  |
| 6.0                                    |                                                                                              | 6800<br>0.0                 | 1.4/<br>2.0     | SLD<br>70466<br>archive<br>1170 | 2                          | archive sample<br>taken from<br>6.0-6.5' BGS     |
|                                        | cinders and slag<br>(few)                                                                    | 6300<br>0.0                 |                 |                                 | 3                          |                                                  |
| 7.0                                    |                                                                                              | 6600<br>0.0                 |                 |                                 | 5                          |                                                  |
| CL                                     | Silty clay, med. dense, med.<br>H. brn, dry                                                  | 5600<br>0.0                 | no<br>recovery  |                                 | 7                          |                                                  |
| 8.0                                    | Silty fine sand w/<br>few med. to coarse<br>gravel                                           | 5700<br>0.0                 | 1.4/<br>2.0     |                                 | 3                          |                                                  |
|                                        | Silty fine sand w/<br>few med. to coarse<br>gravel, coarse, poorly<br>graded, H. brn, dry    | 5700<br>0.0                 |                 |                                 | 5                          |                                                  |
| 9.0                                    |                                                                                              | 5600<br>0.0                 |                 | SLD<br>70466<br>archive<br>1130 | 9                          | archive<br>sample taken<br>from 9.0-<br>9.5' BGS |
|                                        |                                                                                              | N/A<br>N/A                  | no<br>recovery  |                                 | 7                          |                                                  |

EBG FORM 5056A-R, AUG 94

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                  |                              |                 |                 |                 | WELL NUMBER<br>SLB 70466   |
|----------------------------------------|----------------------------------|------------------------------|-----------------|-----------------|-----------------|----------------------------|
| PROJECT<br>FUSRAP/SLDS                 |                                  | INSPECTOR<br>Phillip Stetler |                 | DATE<br>3/2/98  |                 | WELL NAME<br>PS-3          |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS<br>(ft) | RECOVERY<br>(ft)             | REMARKS<br>(ft) | REMARKS<br>(ft) | REMARKS<br>(ft) | REMARKS<br>(ft)            |
| 11.0                                   | trace brick frags                | 6.00<br>0.0                  | 1.5/<br>2.0     | 5               | 10              | (1125)                     |
| 12.0                                   |                                  | 4.00<br>0.0                  |                 | 11              |                 |                            |
| 13.0                                   |                                  | 5.00<br>0.0                  |                 | 13              |                 |                            |
| 14.0                                   | TD: 12.0' BGS                    |                              |                 |                 |                 | Background:                |
| 15.0                                   | 1120                             |                              |                 |                 |                 | NaI: 6000                  |
| 16.0                                   | 9-5-02                           |                              |                 |                 |                 | PID: 0.0                   |
| 17.0                                   |                                  |                              |                 |                 |                 | Boring back                |
| 18.0                                   |                                  |                              |                 |                 |                 | filled w/                  |
| 19.0                                   |                                  |                              |                 |                 |                 | strength                   |
| 20.0                                   |                                  |                              |                 |                 |                 | grout.                     |
| 21.0                                   |                                  |                              |                 |                 |                 | (3 bags Port-              |
| 22.0                                   |                                  |                              |                 |                 |                 | land Cement                |
| 23.0                                   |                                  |                              |                 |                 |                 | 3 bags, ben-               |
| 24.0                                   |                                  |                              |                 |                 |                 | tonite, and                |
| 25.0                                   |                                  |                              |                 |                 |                 | 45 gal. H <sub>2</sub> O). |
| 26.0                                   |                                  |                              |                 |                 |                 |                            |
| 27.0                                   |                                  |                              |                 |                 |                 |                            |
| 28.0                                   |                                  |                              |                 |                 |                 |                            |
| 29.0                                   |                                  |                              |                 |                 |                 |                            |
| 30.0                                   |                                  |                              |                 |                 |                 |                            |
| 31.0                                   |                                  |                              |                 |                 |                 |                            |
| 32.0                                   |                                  |                              |                 |                 |                 |                            |
| 33.0                                   |                                  |                              |                 |                 |                 |                            |
| 34.0                                   |                                  |                              |                 |                 |                 |                            |
| 35.0                                   |                                  |                              |                 |                 |                 |                            |
| 36.0                                   |                                  |                              |                 |                 |                 |                            |
| 37.0                                   |                                  |                              |                 |                 |                 |                            |
| 38.0                                   |                                  |                              |                 |                 |                 |                            |
| 39.0                                   |                                  |                              |                 |                 |                 |                            |
| 40.0                                   |                                  |                              |                 |                 |                 |                            |
| 41.0                                   |                                  |                              |                 |                 |                 |                            |
| 42.0                                   |                                  |                              |                 |                 |                 |                            |
| 43.0                                   |                                  |                              |                 |                 |                 |                            |
| 44.0                                   |                                  |                              |                 |                 |                 |                            |
| 45.0                                   |                                  |                              |                 |                 |                 |                            |
| 46.0                                   |                                  |                              |                 |                 |                 |                            |
| 47.0                                   |                                  |                              |                 |                 |                 |                            |
| 48.0                                   |                                  |                              |                 |                 |                 |                            |
| 49.0                                   |                                  |                              |                 |                 |                 |                            |
| 50.0                                   |                                  |                              |                 |                 |                 |                            |

PROJECT FUSRAP/SLDS

WELL NUMBER SLB 70466

ENG FORM 5056A-2, AUG 94

| HTRW DRILLING LOG                                                                                                                                                                                   |  |                                                          |  | HOLE NO.                      |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------|--|-------------------------------|--|
| 1. COMPANY NAME<br>Shaw E + I                                                                                                                                                                       |  | 2. DRILLING SUBCONTRACTOR<br>MES, Inc.                   |  | HOLE NO.<br>SLD 70486         |  |
| 3. PROJECT<br>FUS RAP / SLDs                                                                                                                                                                        |  | 4. LOCATION<br>City of Venice, IL VP                     |  | 1 = 2                         |  |
| 5. NAME OF DRILLER<br>Chris Anthony                                                                                                                                                                 |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120 |  |                               |  |
| 7. SIZE AND TYPE OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using 1/2" and 3/4" split 50000<br>diag w/ spread<br>PID 9-12-02 NAT LVD 173040<br>30 100/100 Sol Date 4-1-02 Bgk = 10.000 |  | 8. HOLE LOCATION<br>N/A                                  |  |                               |  |
| 12. OVERBURDEN THICKNESS<br>N/A                                                                                                                                                                     |  | 9. SURFACE ELEVATION<br>N/A                              |  |                               |  |
| 13. DEPTH DRILLED INTO ROCK<br>N/A                                                                                                                                                                  |  | 10. DATE STARTED<br>4-12-02                              |  | 11. DATE COMPLETED<br>4-12-02 |  |
| 14. TOTAL DEPTH OF HOLE<br>1.5' BGS                                                                                                                                                                 |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br>N/A                 |  |                               |  |
| 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A                                                                                                                                 |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A      |  |                               |  |
| 18. GEOTECHNICAL SAMPLES<br>DISTURBED <input checked="" type="checkbox"/> UNDISTURBED <input checked="" type="checkbox"/>                                                                           |  | 19. TOTAL NUMBER OF CORE BOXES<br>0                      |  |                               |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS<br>YES <input checked="" type="checkbox"/> NO <input checked="" type="checkbox"/>                                                                                 |  | 21. TOTAL CORE RECOVERY<br>0%                            |  |                               |  |
| 22. DEPOSITION OF MCL<br>Yes <input checked="" type="checkbox"/>                                                                                                                                    |  | 23. SIGNATURE OF INSPECTOR<br>[Signature]                |  |                               |  |
| <p>LOCATION SKETCH/COMMENTS</p> <p>SCALE: Not to scale</p>                                                                                                                                          |  |                                                          |  |                               |  |
| PROJECT<br>FUS RAP / SLDs                                                                                                                                                                           |  |                                                          |  | HOLE NO.<br>SLD 70486         |  |

EM 1110-1-4000  
1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                     |                                  |                 |                            |                 | HOLE NO. <b>SLD 70486</b> |                                                                                              |
|----------------------------------------|-------------------------------------------------------------------------------------|----------------------------------|-----------------|----------------------------|-----------------|---------------------------|----------------------------------------------------------------------------------------------|
| PROJECT <b>FUSRAP/SLDS</b>             |                                                                                     | INSPECTOR <b>Phillip Stastek</b> |                 | SHEET <b>2</b> OF <b>2</b> |                 |                           |                                                                                              |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS<br>(ft)                                                    | RECOVERY<br>(%)                  | RECOVERY<br>(%) | RECOVERY<br>(%)            | RECOVERY<br>(%) | RECOVERY<br>(%)           | RECOVERY<br>(%)                                                                              |
| 1.0                                    | 5' (1/2) fine sand, (loose, poorly graded), thin brown clay. some clinkers and slag | 10,000<br>0.0                    |                 |                            |                 | N/A                       |                                                                                              |
| 1.5                                    |                                                                                     | 15,000<br>0.0                    |                 |                            |                 | N/A                       |                                                                                              |
| 2.0                                    |                                                                                     | 13,000<br>0.0                    |                 |                            |                 | N/A                       |                                                                                              |
| 2.0                                    | TD: 1.5' BGS<br>9-12-02<br>1430                                                     |                                  |                 |                            |                 |                           | Background:<br>NAT: 10,000<br>PIP: 0.0                                                       |
| 3.0                                    |                                                                                     |                                  |                 |                            |                 |                           | Boring back<br>filled w/ 1/8<br>in hydrated<br>bentonite<br>chips. Capped<br>boring w/ soil. |
| 4.0                                    |                                                                                     |                                  |                 |                            |                 |                           |                                                                                              |
| 5.0                                    |                                                                                     |                                  |                 |                            |                 |                           |                                                                                              |
| 6.0                                    |                                                                                     |                                  |                 |                            |                 |                           |                                                                                              |
| 7.0                                    |                                                                                     |                                  |                 |                            |                 |                           |                                                                                              |
| 8.0                                    |                                                                                     |                                  |                 |                            |                 |                           |                                                                                              |
| 9.0                                    |                                                                                     |                                  |                 |                            |                 |                           |                                                                                              |
| 10.0                                   |                                                                                     |                                  |                 |                            |                 |                           |                                                                                              |

ENG FORM 5056A-2, AUG 94

| HTRW DRILLING LOG                                                                                                                                                        |  |                                                 |  | DISTRICT <u>St. Louis</u>                                              |  | HOLE NUMBER <u>SLD 71088</u>                                       |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------|--|------------------------------------------------------------------------|--|--------------------------------------------------------------------|--|
| 1. COMPANY NAME <u>Shaw &amp; FI</u>                                                                                                                                     |  |                                                 |  | 2. DRILLING SUBCONTRACTOR <u>MES, Inc</u>                              |  | SHEET <u>1</u> OF <u>3</u>                                         |  |
| 3. PROJECT <u>Chris Anthony D.J. FUSRAP/SLDS</u>                                                                                                                         |  |                                                 |  | 4. LOCATION <u>Ext PSC Metals VP</u>                                   |  |                                                                    |  |
| 5. NAME OF DRILLER <u>Chris Anthony</u>                                                                                                                                  |  |                                                 |  | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>Diedrich D-120</u>           |  |                                                                    |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>Diedrich D-120</u><br><u>using 4 1/4" HSA + 3" x 2" SPIF</u><br><u>spoon</u>                                    |  |                                                 |  | 8. HOLE LOCATION                                                       |  |                                                                    |  |
|                                                                                                                                                                          |  |                                                 |  | 9. SURFACE ELEVATION                                                   |  |                                                                    |  |
| 12. OVERBURDEN THICKNESS <u>NA</u>                                                                                                                                       |  |                                                 |  | 10. DATE STARTED <u>7-9-02</u>                                         |  | 11. DATE COMPLETED <u>7-9-02</u>                                   |  |
| 13. DEPTH DRILLED INTO ROCK <u>NA</u>                                                                                                                                    |  |                                                 |  | 15. DEPTH GROUNDWATER ENCOUNTERED <u>NA</u>                            |  |                                                                    |  |
| 14. TOTAL DEPTH OF HOLE <u>10' BGS</u>                                                                                                                                   |  |                                                 |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>NA</u> |  |                                                                    |  |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>NA</u>                                                                                                                   |  |                                                 |  |                                                                        |  |                                                                    |  |
| 18. GEOTECHNICAL SAMPLES <input checked="" type="checkbox"/>                                                                                                             |  | DISTURBED <input checked="" type="checkbox"/>   |  | UNDISTURBED <input checked="" type="checkbox"/>                        |  | 19. TOTAL NUMBER OF CORE BOXES <input checked="" type="checkbox"/> |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS <input checked="" type="checkbox"/>                                                                                                    |  | VOC <input checked="" type="checkbox"/>         |  | METALS <input checked="" type="checkbox"/>                             |  | OTHER (SPECIFY) <u>RAD</u>                                         |  |
| 21. TOTAL CORE RECOVERY <input checked="" type="checkbox"/>                                                                                                              |  | SACK FILLED <input checked="" type="checkbox"/> |  | MONITORING WELL <input checked="" type="checkbox"/>                    |  | OTHER (SPECIFY) <input checked="" type="checkbox"/>                |  |
| 22. DISPOSITION OF HOLE <input checked="" type="checkbox"/>                                                                                                              |  | yes                                             |  | 23. SIGNATURE OF INSPECTOR <u>Don Jones</u>                            |  |                                                                    |  |
| <div style="display: flex; justify-content: space-between;"> <div> <p>LOCATION SKETCH/COMMENTS</p> <p>North ↑</p> </div> <div> <p>SCALE: Not To Scale.</p> </div> </div> |  |                                                 |  |                                                                        |  |                                                                    |  |
| <div style="display: flex; justify-content: space-between;"> <div>PROJECT <u>FUSRAP/SLDS</u></div> <div>HOLE NO. <u>SLD 71088</u></div> </div>                           |  |                                                 |  |                                                                        |  |                                                                    |  |



| HTRW DRILLING LOG (CONTINUATION SHEET) |               |                                                                                                                              |                                |                                                        |                                     |                      | WELL NUMBER<br>SLD 710848 |
|----------------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------------------------------|-------------------------------------|----------------------|---------------------------|
| PROJECT<br>FUSRAP/SLDS                 |               |                                                                                                                              | INSPECTOR<br>Don Jones         |                                                        | SHEET<br>2 of 3                     |                      | 03                        |
| DEPTH<br>(I)                           | DEPTH<br>(II) | DESCRIPTION OF MATERIALS<br>(III)                                                                                            | WELL SCREEN<br>RESULTS<br>(IV) | DEPTH SAMPLE<br>OR OTHER USE OF LOG<br>RECOVERY<br>(V) | ANALYTICAL<br>SAMPLE NO.<br>(VI)    | BLIND COUNT<br>(VII) | REMARKS<br>(VIII)         |
| ML                                     |               | Silt trace glass and gravel,<br>Light Brown, Trace metal on slag                                                             | 5200<br>0.0                    | 2.0/20                                                 | SLD 710848<br>7-9-02<br>1010        | 16                   |                           |
| SP                                     | 1             | Silts and cinder, trace sand,<br>Coarse sand to Fine gravel<br>particle size, Black and<br>brown, loose, Dry, Poorly graded  | 5000<br>0.0<br>4800<br>0.0     |                                                        |                                     | 13                   |                           |
|                                        | 2             |                                                                                                                              | 5300<br>0.0<br>4700<br>0.0     |                                                        | SLD 710848<br>7-9-02<br>1015        | 12<br>9              |                           |
|                                        | 3             |                                                                                                                              | 5500<br>0.0<br>5000<br>0.0     |                                                        | SLD 710848<br>7-9-02<br>1025        | 6<br>5               |                           |
| SM                                     | 4             | Silty sand, Very fine, loose<br>poorly graded, moist, red/brown<br>and tan<br>few clay                                       | 5000<br>0.5<br>4700<br>0.0     |                                                        | Archiving<br>sample<br>1030         | 4                    |                           |
| SP                                     | 5             | Cinders and slag, Fine sand<br>sized particle to coarse sand<br>sized particle, Trace Clay<br>Black and brown, Poorly graded | NA                             | NO<br>Recovery<br>(Loss)                               | SLD 710848<br>1045                  | 8<br>7               |                           |
|                                        | 6             |                                                                                                                              | 5100<br>0.0<br>4800<br>0.0     | 2.0/20                                                 | 1045<br>Archiving<br>sample<br>1100 | 3<br>5<br>3          |                           |
| ML                                     | 7             | Sandy silt, sand is very fine,<br>moist to wet, Light brown to<br>dark brown, trace slag and<br>cinders, dry, soft           | 5200<br>0.0<br>4800<br>0.0     |                                                        |                                     | 6                    |                           |
| SP                                     | 8             | Coarse sand, tan, moist, Poorly<br>graded, large                                                                             | 5100<br>0.0<br>5200<br>0.0     | 2.0/20                                                 |                                     | 4<br>3               |                           |
| ML                                     | 9             | iron staining<br>Olive gray, moist                                                                                           |                                |                                                        |                                     |                      |                           |

Continued on pg 3

Continued on

SLD 72139

21G FORM 1055A-6 21G 34

# TRW DRILLING LOG

ST. LOUIS

SLD 72140

COMPANY NAME Shaw E + I

2. DRILLING CONTRACTOR MES, Inc.

SHEET 2

1. PROJECT FUS RAP / SLOS

4. LOCATION ASC Metals North Tract U.P. City of Venice IL I.A. PS.

5. NAME OF DRILLER Chris Anthony

6. MANUFACTURER'S DESIGNATION OF DRILL Diedrich D-120

7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT  
Diedrich D-120  
using HSA and  
3" x 2' Split Spoon

8. HOLE LOCATION N/A

9. SURFACE ELEVATION N/A

10. DATE STARTED 10-17-02  
to 100/100 Soil Core 16-17-02 Bgs = 5900

11. DATE COMPLETED 10-17-02

12. OVERCURE THICKNESS N/A

13. DEPTH GROUNDWATER ENCOUNTERED N/A

14. DEPTH DRILLED INTO HALL N/A

15. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED N/A

16. TOTAL DEPTH OF HOLE 6.0' BGS

17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) N/A

18. GEOTECHNICAL SAMPLES  
DISTURBED ☒ UNDISTURBED ☒

19. TOTAL NUMBER OF CORE BOXES 2

20. SAMPLES FOR CHEMICAL ANALYSIS  
TOX ☒ METALS ☒ OTHER (SPECIFY) RAD ☒

21. TOTAL CORE RECOVERY 2

22. DEPOSITION OF HOLE  
SACFILLED ☒ MONITORING WELL ☒ OTHER (SPECIFY) ☒

23. SIGNATURE OF INSPECTOR Phillip R. Staller

LOCATION SKETCH/COMMENTS North

SCALE: Not to scale

Bremen Ave.

fence

Concrete entrance ramp

SLD 72139

SLD 72140

SLD 72142

SLD 72143

fence

FUS RAP SLOS

SLD 72140

EM 1110-1-4000  
1 Nov 98

| HTRW DRILLING LOG                     |                                                                                                | CONTINUATION SHEET               |                | SLD 72140               |                                 |  |  |                                                                                                                 |
|---------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------|----------------|-------------------------|---------------------------------|--|--|-----------------------------------------------------------------------------------------------------------------|
| FUS RAP/SLDS                          |                                                                                                | INSPECTOR Phillip Statler        |                | SHEET 2 OF 2            |                                 |  |  |                                                                                                                 |
| DEPTH<br>feet                         | DESCRIPTION OF MATERIALS                                                                       | NO. OF<br>SAMPLES                | RECOVERY<br>%  | SLD<br>NO.              | REMARKS                         |  |  |                                                                                                                 |
| SM<br>1.0                             | silty fine sand w/ tan med. gravel, loose, poorly graded, some shell, some slag, dk. brn, dry. | 6600 0.0                         | 2.0 / 2.0      | SLD 72140 10-17-02 1005 |                                 |  |  |                                                                                                                 |
|                                       |                                                                                                | 6500 0.0                         |                |                         |                                 |  |  |                                                                                                                 |
|                                       |                                                                                                | 6300 0.0                         |                |                         |                                 |  |  |                                                                                                                 |
|                                       |                                                                                                | 6200 0.0                         |                |                         |                                 |  |  |                                                                                                                 |
| CL<br>2.0<br>3.0<br>4.0<br>5.0<br>6.0 | silty clay, med. stiff to stiff, med. plast., dk. brn., dry.                                   | 6700 0.0                         | 1.6 / 2.0      | SLD 72167 1010          | archive sample from 2.5-3.0 BGS |  |  |                                                                                                                 |
|                                       |                                                                                                | 6600 0.0                         |                |                         |                                 |  |  |                                                                                                                 |
|                                       |                                                                                                | 6500 0.0                         |                |                         |                                 |  |  |                                                                                                                 |
|                                       |                                                                                                | N/A N/A                          | no recovery    |                         |                                 |  |  |                                                                                                                 |
|                                       |                                                                                                | 5500 0.0                         | 1.7 / 2.0 P.S. |                         |                                 |  |  |                                                                                                                 |
|                                       |                                                                                                | 5300 0.0                         |                |                         |                                 |  |  |                                                                                                                 |
|                                       |                                                                                                | 6200 0.0                         |                |                         |                                 |  |  |                                                                                                                 |
|                                       |                                                                                                | N/A N/A                          | no recovery    |                         |                                 |  |  |                                                                                                                 |
|                                       |                                                                                                | TD: 6.0' BGS<br>10-17-02<br>1015 |                |                         |                                 |  |  | Background:<br>NaF: 5900<br>PID: 0.0<br>Backfilled boring w/ 20 bags of bentonite chips. Capped boring w/ soil. |
|                                       |                                                                                                |                                  |                |                         |                                 |  |  |                                                                                                                 |
|                                       |                                                                                                |                                  |                |                         |                                 |  |  |                                                                                                                 |
|                                       |                                                                                                |                                  |                |                         |                                 |  |  |                                                                                                                 |
|                                       |                                                                                                |                                  |                |                         |                                 |  |  |                                                                                                                 |
|                                       |                                                                                                |                                  |                |                         |                                 |  |  |                                                                                                                 |
|                                       |                                                                                                |                                  |                |                         |                                 |  |  |                                                                                                                 |
|                                       |                                                                                                |                                  |                |                         |                                 |  |  |                                                                                                                 |
|                                       |                                                                                                |                                  |                |                         |                                 |  |  |                                                                                                                 |
|                                       |                                                                                                |                                  |                |                         |                                 |  |  |                                                                                                                 |





1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                                        |                |             | HOLE NUMBER                      |           |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|----------------------------------|-----------|
| NAME                                   |                                                                                                                                        | INSPECTOR      |             | SHEET                            |           |
| EUSRAP/SLDS                            |                                                                                                                                        | Philip Statler |             | 2 OF 2                           |           |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS                                                                                                               | NO. OF<br>PIPS | RECOVERY    | SLD<br>72141<br>10-15-02<br>1355 | SLW COUNT |
| 1.0                                    | SM silty fine sand w/ some med. gravel, med. dense to dense, poorly graded, lt. brn. to brn. some cinders and slag, trace reddish slag | 6700<br>0.0    | 1.8/<br>2.0 | 31                               |           |
|                                        |                                                                                                                                        | 6800<br>0.0    |             | 21                               |           |
|                                        |                                                                                                                                        | 7200<br>0.0    |             | 13                               |           |
| 2.0                                    | trace broken glass, trace wood.                                                                                                        | 6800<br>0.0    | no recovery | 6                                |           |
|                                        |                                                                                                                                        | 6700<br>0.0    |             | 7                                |           |
| 3.0                                    | CL silty clay w/ few fine sand, med. dense to stiff, med. plast.; lt. brn., dry.                                                       | 6400<br>0.0    | 1.7/<br>2.0 | 9                                |           |
|                                        |                                                                                                                                        | 6700<br>0.0    |             | 13                               |           |
|                                        |                                                                                                                                        | 6800<br>0.0    | no recovery | 7                                |           |
| 4.0                                    | CL clay turning lt. gry. mottled gry./brn.                                                                                             | 7000<br>0.0    | 1.8/<br>2.0 | 6                                |           |
|                                        |                                                                                                                                        | 6800<br>0.0    |             | 8                                |           |
|                                        |                                                                                                                                        | 7100<br>0.0    |             | 7                                |           |
|                                        |                                                                                                                                        | 7300<br>0.0    | no recovery | 8                                |           |
| 6.0                                    | TD: 6.0' BGS<br>10-15-02<br>1355                                                                                                       |                |             |                                  |           |
| 7.0                                    |                                                                                                                                        |                |             |                                  |           |
| 8.0                                    |                                                                                                                                        |                |             |                                  |           |
| 9.0                                    |                                                                                                                                        |                |             |                                  |           |
| 10.0                                   |                                                                                                                                        |                |             |                                  |           |

Back-grounds  
Nat: 6900  
PID: 0.0  
Back-filled  
boring w/  
3 bags of  
bentonite  
chips.

# TRW DRILLING LOG

1. CITY: St. Louis

2. HOLE NUMBER: SLD 72142

3. COMPANY NAME: Shaw E + I

4. DRILLING SUBCONTRACTOR: MES, Inc.

5. SHEET: 1 of 2

6. PROJECT: FUS RAP / SLDS

7. LOCATION: PSC Metal North Tract U.P.  
CITY of Venice, IL VP P.S.

8. NAME OF DRILLER: Chris Anthony

9. MANUFACTURER'S DESIGNATION OF DRILL: Diedrich D-120

10. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Diedrich D-120  
using 4 1/2" HSA and  
3" x 2' split spoon

11. HOLE LOCATION: N/A

12. SURFACE ELEVATION: N/A

13. PID 10-21-02 NAI LUD 172040  
to 100/100 Cal Date 4-1-03 BgK = 6,200

14. DATE STARTED: 10-21-02

15. DATE COMPLETED: 10-21-02

16. OVERBURDEN THICKNESS: N/A

17. DEPTH GROUNDWATER ENCOUNTERED: N/A

18. DEPTH DRILLED INTO ROCK: N/A

19. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: N/A

20. TOTAL DEPTH OF HOLE: 6.0' BGS

21. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

22. GEOTECHNICAL SAMPLES

23. DISTURBED

24. UNDISTURBED

25. TOTAL NUMBER OF CORE BOXES

26. SAMPLES FOR CHEMICAL ANALYSIS

27. TOC

28. METALS

29. OTHER (SPECIFY)

30. OTHER (SPECIFY)

31. OTHER (SPECIFY)

32. TOTAL CORE RECOVERY

33. DISPOSITION OF HOLE

34. SACKFILLED

35. MONITORING WELL

36. OTHER (SPECIFY)

37. SIGNATURE OF INSPECTOR

38. LOCATION SKETCH/COMMENTS: North

39. SUEAN K. ADAMS

40. SCALE: Not to scale

Concrete Entrance Ramp

fence

SLD 72139

SLD 72140

72142

SLD 72143

Building

PROJECT: FUS RAP / SLDS

41. HOLE NO. SLD 72142

EM 1110-1-4000  
1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                 |                           |                         |                         |                                   | SLD 72/42                       |  |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------|-------------------------|-----------------------------------|---------------------------------|--|
| PROJECT: FUSRAP/SLOS                   |                                                                                                                 | INSPECTOR: Philip Statler |                         | SHEET: 2 OF 2           |                                   | SHEET: 2 OF 2                   |  |
| DEPTH (ft)                             | DESCRIPTION OF MATERIAL                                                                                         | WATER P.D.                | RECOVERY                | SLD 72/42 10-21-02 1100 | BLOW COUNT                        | REMARKS                         |  |
| 1.0                                    | SM Silty fine sand w/ low med. gravel, loose to med. dense, poorly graded, dk. brn., dry, some clasts and slag. | 6900 0.0                  | 1.9 / 2.0               | SLD 72/42 10-21-02 1100 | 18                                |                                 |  |
|                                        |                                                                                                                 | 6500 0.0                  |                         |                         | 11                                |                                 |  |
|                                        |                                                                                                                 | 5800 0.0                  |                         |                         | 9                                 |                                 |  |
| 2.0                                    | CL Silty clay, med. str. to med. plast., H. brn., dry.                                                          | 6200 0.0                  | no recovery             | SLD 72/42 10-21-02 1100 | 7                                 |                                 |  |
|                                        |                                                                                                                 | 6200 0.0                  | 1.8 / 2.0               |                         | 8                                 |                                 |  |
|                                        |                                                                                                                 | 5900 0.0                  |                         |                         | 3                                 |                                 |  |
|                                        |                                                                                                                 | 6400 0.0                  |                         |                         | 6                                 |                                 |  |
|                                        |                                                                                                                 | 6500 0.0                  | no recovery             | SLD 72/42 10-21-02 1100 | 14                                | archive sample from 33-3.8' Bds |  |
|                                        |                                                                                                                 | 6200 0.0                  | 2.0 / 2.0               |                         | 4                                 |                                 |  |
|                                        |                                                                                                                 | 6600 0.0                  |                         |                         | 4                                 |                                 |  |
|                                        |                                                                                                                 | 6500 0.0                  |                         |                         | 5                                 |                                 |  |
|                                        | 6400 0.0                                                                                                        |                           | SLD 72/42 10-21-02 1100 | 5                       | archive sample from 5.5-6.0' Bds. |                                 |  |
| 6.0                                    | TD: 6.0' Bds<br>10-21-02<br>1100                                                                                |                           |                         |                         |                                   | Background                      |  |
|                                        |                                                                                                                 |                           |                         |                         |                                   | NaI: 6200                       |  |
|                                        |                                                                                                                 |                           |                         |                         |                                   | PDP: 0.0                        |  |
|                                        |                                                                                                                 |                           |                         |                         |                                   | Back-filled                     |  |
|                                        |                                                                                                                 |                           |                         |                         |                                   | boring w/                       |  |
|                                        |                                                                                                                 |                           |                         |                         |                                   | 3.0 bags of                     |  |
|                                        |                                                                                                                 |                           |                         |                         |                                   | bentonite                       |  |
|                                        |                                                                                                                 |                           |                         |                         |                                   | chips. Capped w/ soil.          |  |

5LD 72143

EM 1110-1-1000  
1 Nov 98

| HTRW DRILLING LOG |                                                                                                                                           | CONTINUATION SHEET        |              | PROJECT   |              | SHEET        |                                                                                                                          |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------|-----------|--------------|--------------|--------------------------------------------------------------------------------------------------------------------------|
| FUSRAP/SLDS       |                                                                                                                                           | INSPECTOR Phillip Statler |              | 72143     |              | 2 OF 2       |                                                                                                                          |
| DEPTH             | DESCRIPTION OF MATERIALS                                                                                                                  | WATER CONTENT (%)         | RECOVERY (%) | SLC NO.   | SLC DATE     | SLC COMMENTS | REMARKS                                                                                                                  |
| 1.0               | Silty fine sand w/ some med. gravel, loose to med. dense, poorly graded, lt. brn, dry, few cinders, slag, trace brick frags, trace glass. | 5800<br>0.0               | 2.0          | 72143     | 10-17-02     | 9            |                                                                                                                          |
|                   |                                                                                                                                           | 5900<br>0.0               | 2.0          |           |              | 9            |                                                                                                                          |
|                   |                                                                                                                                           | 6100<br>0.0               |              |           |              | RSX 7        |                                                                                                                          |
| 2.0               | trace wood, flaky, weathered                                                                                                              | 6000<br>0.0               |              | SLC 72170 | 1105         | 11           |                                                                                                                          |
|                   |                                                                                                                                           | 6200<br>0.0               |              |           |              | 28           |                                                                                                                          |
| 3.0               | limestone cobble, some cinders, some slag, trace ash                                                                                      | 5800<br>0.0               | 2.0          |           |              | 41           |                                                                                                                          |
|                   |                                                                                                                                           | 5800<br>0.0               | 2.0          |           |              | 17           |                                                                                                                          |
|                   |                                                                                                                                           | 6400<br>0.0               |              | SLC 72143 | 1115         | 13           | archive sample from 3.5 - 4.0 BGS.                                                                                       |
| 4.0               | Trace clay, brn.                                                                                                                          | 5700<br>0.0               | 1.6          |           |              | 6            |                                                                                                                          |
|                   | Silty clay, med. stiff, med. plastic, lt. brn, dry                                                                                        | 5600<br>0.0               | 2.0          |           |              | 7            |                                                                                                                          |
| 5.0               | Silty fine sand, loose, poorly graded, lt. brn, dry, some cinders and some slag                                                           | 6100<br>0.0               |              | SLC 72143 | archive 1120 | 8            | archive sample from 5.1 - 5.6' BGS.                                                                                      |
|                   |                                                                                                                                           | 6600<br>0.0               | no recovery  |           |              | 7            |                                                                                                                          |
| 6.0               | TD: 6.0' BGS<br>1115<br>10-17-02                                                                                                          |                           |              |           |              |              | Background:<br>NAT: 5900<br>PID: 0.0<br>Backfilled<br>boring w/<br>3.0 bags of<br>bentonite<br>chips. Capped<br>w/ soil. |
| 7.0               |                                                                                                                                           |                           |              |           |              |              |                                                                                                                          |
| 8.0               |                                                                                                                                           |                           |              |           |              |              |                                                                                                                          |
| 9.0               |                                                                                                                                           |                           |              |           |              |              |                                                                                                                          |
| 10.0              |                                                                                                                                           |                           |              |           |              |              |                                                                                                                          |



EM 1110-1-4000  
1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                      |                           |               |                               |                         | HOLE NO. 72144        |                               |               |
|----------------------------------------|------------------------------------------------------------------------------------------------------|---------------------------|---------------|-------------------------------|-------------------------|-----------------------|-------------------------------|---------------|
| PROJECT FUSRAP/SLDS                    |                                                                                                      | INSPECTOR Phillip Statler |               |                               |                         | SHEET 2 OF 2          |                               |               |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS (ft)                                                                        | WATER CONTENT (%)         | SHRINKAGE (%) | GRAVIMETRIC WATER CONTENT (%) | GRAVIMETRIC SOLIDS (%)  | GRAVIMETRIC WATER (%) | REMARKS                       |               |
| SM                                     | silty fine sand w/ few med. gravel (poorly graded) to brn., dry brick frags. some cinders and slag.  | 6600                      | 0.0           | 1.9/2.0                       | SLD 72144 10-15-02 0910 | 5                     |                               |               |
|                                        |                                                                                                      | 7200                      | 0.0           |                               |                         | 7                     |                               |               |
|                                        |                                                                                                      | 7300                      | 0.0           |                               |                         | 9                     |                               |               |
|                                        |                                                                                                      | 7400                      | 0.0           |                               | SLD 72171 0945          | 5                     |                               |               |
|                                        |                                                                                                      | 7500                      | 0.0           | no recovery                   |                         | 8                     |                               |               |
| CL                                     | silty clay, med. stiff to stiff (to brn.) dry, med. plastic, few cinders and slag. clay turning org. | 7600                      | 0.0           | 1.5/2.0                       | SLD 72144 0950          | 7                     |                               |               |
|                                        |                                                                                                      | 7700                      | 0.0           |                               |                         | 7                     |                               |               |
|                                        |                                                                                                      | N/A                       | N/A           | no recovery                   |                         | 9                     |                               |               |
|                                        |                                                                                                      | 7800                      | 0.0           | 1.8/2.0                       |                         | 4                     |                               |               |
|                                        |                                                                                                      | 7900                      | 0.0           |                               |                         | 4                     |                               |               |
|                                        |                                                                                                      | 8000                      | 0.0           |                               | SLD 72203 0955          | 6                     |                               |               |
|                                        |                                                                                                      | 8100                      | 0.0           | no recovery                   |                         | 7                     |                               |               |
|                                        |                                                                                                      | 8200                      | 0.0           |                               |                         |                       |                               |               |
|                                        | TD: 6.0' BGS 10-15-02 0910                                                                           |                           |               |                               |                         |                       | Background NAI: 6900 PID: 0.0 |               |
|                                        |                                                                                                      |                           |               |                               |                         |                       |                               | Backfilled    |
|                                        |                                                                                                      |                           |               |                               |                         |                       |                               | boring w/     |
|                                        |                                                                                                      |                           |               |                               |                         |                       |                               | 3 bags of     |
|                                        |                                                                                                      |                           |               |                               |                         |                       |                               | best white    |
|                                        |                                                                                                      |                           |               |                               |                         |                       |                               | chips. capped |
|                                        |                                                                                                      |                           |               |                               |                         |                       |                               | boring w/     |
|                                        |                                                                                                      |                           |               |                               |                         |                       |                               | soil.         |
|                                        |                                                                                                      |                           |               |                               |                         |                       |                               |               |
|                                        |                                                                                                      |                           |               |                               |                         |                       |                               |               |



| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                              |  |                                                                       |  | DISTRICT<br>St. Louis                                                                                                                                     |  | HOLE NUMBER<br>SLD 72145                                       |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------|--|
| COMPANY NAME<br>Shaw E + I                                                                                                                                                                                                                                                                                                                                                     |  |                                                                       |  | 2. DRILLING SUBCONTRACTOR<br>MES, Inc.                                                                                                                    |  | SHEET<br>1 of 2                                                |  |
| 1. PROJECT<br>FUS RAP / SLDs                                                                                                                                                                                                                                                                                                                                                   |  |                                                                       |  | 4. LOCATION<br>PSC Metals North Tract V.P.<br>City of Venice, IL                                                                                          |  |                                                                |  |
| 5. NAME OF DRILLER<br>Chris Anthony                                                                                                                                                                                                                                                                                                                                            |  |                                                                       |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120                                                                                                  |  |                                                                |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using 3 1/2" HSAH and<br>3" x 2 1/2" split spoon                                                                                                                                                                                                                                                    |  |                                                                       |  | 8. HOLE LOCATION<br>N/A                                                                                                                                   |  |                                                                |  |
| 10. DATE STARTED<br>10-14-02                                                                                                                                                                                                                                                                                                                                                   |  |                                                                       |  | 11. DATE COMPLETED<br>10-14-02                                                                                                                            |  |                                                                |  |
| 12. OVERBURDEN THICKNESS<br>N/A                                                                                                                                                                                                                                                                                                                                                |  |                                                                       |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br>N/A                                                                                                                  |  |                                                                |  |
| 13. DEPTH DRILLED INTO ROCK<br>N/A                                                                                                                                                                                                                                                                                                                                             |  |                                                                       |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A                                                                                       |  |                                                                |  |
| 14. TOTAL DEPTH OF HOLE<br>6.0' BGS                                                                                                                                                                                                                                                                                                                                            |  |                                                                       |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                                                                                                       |  |                                                                |  |
| 18. GEOTECHNICAL SAMPLES<br><input checked="" type="checkbox"/> DISTURBED<br><input type="checkbox"/> UNDISTURBED                                                                                                                                                                                                                                                              |  | 19. TOTAL NUMBER OF CORE BOXES<br><input checked="" type="checkbox"/> |  | 20. SAMPLES FOR CHEMICAL ANALYSIS<br>VOC <input type="checkbox"/> METALS <input type="checkbox"/> OTHER (SPECIFY) <input checked="" type="checkbox"/> RAD |  | 21. TOTAL CORE RECOVERY<br><input checked="" type="checkbox"/> |  |
| 22. DEPOSITION OF HOLE<br><input checked="" type="checkbox"/> BACKFILLED<br><input type="checkbox"/> MONITORING WELL                                                                                                                                                                                                                                                           |  | 23. SIGNATURE OF INSPECTOR<br>Shelly M. Hall                          |  | 24. SIGNATURE OF DRILLER<br>Susan K. Adams                                                                                                                |  | SCALE: Not to scale                                            |  |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>LOCATION SKETCH/COMMENTS</p> <p>North</p> <p>Bremen Ave.</p> <p>fence</p> <p>Concrete entrance ramp.</p> <p>SLD 72145</p> <p>SLD 72146 AC</p> <p>SLD 72151</p> <p>North Second Ave.</p> </div> <div style="width: 50%; text-align: right;"> <p>SCALE: Not to scale</p> </div> </div> |  |                                                                       |  |                                                                                                                                                           |  |                                                                |  |
| PROJECT<br>FUS RAP / SLDs                                                                                                                                                                                                                                                                                                                                                      |  |                                                                       |  | HOLE NO.<br>SLD 72145                                                                                                                                     |  |                                                                |  |

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| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                            |                              |               |                                 |                    | HOLE NUMBER<br>SLB 72145 |                                                                                       |
|----------------------------------------|----------------------------------------------------------------------------|------------------------------|---------------|---------------------------------|--------------------|--------------------------|---------------------------------------------------------------------------------------|
| PROJECT<br>FUSRAP/SLDS                 |                                                                            | INSPECTOR<br>Phillip Statler |               | SHEET<br>2 OF 2                 |                    | SHEET 2                  |                                                                                       |
| DEPTH<br>FEET                          | DESCRIPTION OF MATERIALS                                                   | NO. OF<br>CORES              | RECOVERY<br>% | SLB<br>ADDRESS NO.              | SLB<br>ADDRESS NO. | SLB<br>ADDRESS NO.       | REMARKS                                                                               |
| 1.0                                    | silty fine sand w/ tan med. gravel med. dense, poorly graded, dk. brn, dry | 6500<br>0.0                  | 1.3/<br>2.0   | SLB<br>72145<br>10-14-02        | 12                 |                          |                                                                                       |
|                                        | some cinders and slag, trace limonite frags (cobbles)                      | 6600<br>0.0                  |               | SLB<br>72172<br>1405            | 10                 |                          |                                                                                       |
|                                        |                                                                            | N/A                          |               |                                 | 18                 |                          |                                                                                       |
| 2.0                                    |                                                                            | N/A                          | no recovery   |                                 | 6                  |                          |                                                                                       |
|                                        |                                                                            | 6100<br>0.0                  |               |                                 | 4                  |                          |                                                                                       |
| 3.0                                    | silty clay, sett to med. silty med. plant.; dk. brn.; dry.                 | 5800<br>0.0                  | 1.8/<br>2.0   | SLB<br>72145<br>archive<br>1420 | 4                  |                          | archive sample from 2.4-2.9' Pds.                                                     |
|                                        |                                                                            | 6700<br>0.0                  |               |                                 | 6                  |                          |                                                                                       |
|                                        |                                                                            | 6400<br>0.0                  | no recovery   |                                 | 8                  |                          |                                                                                       |
| 4.0                                    |                                                                            | 6100<br>0.0                  | 1.9/<br>2.0   |                                 | 3                  |                          |                                                                                       |
|                                        |                                                                            | 5800<br>0.0                  |               |                                 | 5                  |                          |                                                                                       |
| 5.0                                    |                                                                            | 6700<br>0.0                  |               |                                 | 7                  |                          |                                                                                       |
|                                        |                                                                            | 6700<br>0.0                  |               | SLB<br>72145<br>archive<br>1420 | 8                  |                          | archive sample from 5.4-5.9' Pds.                                                     |
| 6.0                                    |                                                                            |                              | no recovery   |                                 |                    |                          |                                                                                       |
| 7.0                                    | TD: 6.0' BG5<br>10-14-02<br>1425                                           |                              |               |                                 |                    |                          | Background:<br>NAI: 6300<br>PID: 0.0                                                  |
| 8.0                                    |                                                                            |                              |               |                                 |                    |                          | Backfilled<br>boring w/<br>3 bags of<br>bentonite<br>chips. Capped<br>boring w/ coil. |
| 9.0                                    |                                                                            |                              |               |                                 |                    |                          |                                                                                       |
| 10.0                                   |                                                                            |                              |               |                                 |                    |                          |                                                                                       |



EM 1110-1-4000  
1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                                  |                           |             |                                  |                 | HOLE NO. SLD 72146 QC                                                                                              |  |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------|----------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------|--|
| PROJECT FUSRAP/SLDS                    |                                                                                                                                  | INSPECTOR Phillip Statler |             |                                  |                 | SHEET 2 OF 2                                                                                                       |  |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS (ft)                                                                                                    | WATER SAMPLE NO.          | RECOVERY    | SLT SAMPLE NO.                   | BLOW COUNT (ft) | REMARKS                                                                                                            |  |
| 1.0                                    | silty fine sand w/ some med. gravel, med. dense, poorly sorted, dk. brn. to blk, dry, some cinders, and slag, trace brick frags. | 8200                      | 1.6/2.0     | SLD 72146, -1, -2, 1045-02, 1045 | 15              |                                                                                                                    |  |
|                                        |                                                                                                                                  | 7700                      |             | SLD 72173, -1, -2, 1050          | 14              |                                                                                                                    |  |
|                                        |                                                                                                                                  | 7300                      |             |                                  | 11              |                                                                                                                    |  |
|                                        |                                                                                                                                  | N/A                       | no recovery |                                  | 7               |                                                                                                                    |  |
| 2.0                                    | silty clay, med. stiff, med. platy, H. brn., dry.                                                                                | 7500                      | 1.5/2.0     |                                  | 8               | archive sample from 2.6-3.1' BGS                                                                                   |  |
|                                        |                                                                                                                                  | 7000                      |             | SLD 72196 QC archive 1110        | 6               |                                                                                                                    |  |
|                                        |                                                                                                                                  | 7300                      |             |                                  | 7               |                                                                                                                    |  |
|                                        |                                                                                                                                  | N/A                       | no recovery |                                  | 8               |                                                                                                                    |  |
|                                        |                                                                                                                                  | 7400                      |             |                                  | 9               |                                                                                                                    |  |
|                                        |                                                                                                                                  | 7200                      |             |                                  | 9               |                                                                                                                    |  |
|                                        |                                                                                                                                  | 7400                      |             | SLD 72196 QC archive 1110        | 15              |                                                                                                                    |  |
|                                        |                                                                                                                                  | 7300                      | no recovery |                                  | 12              |                                                                                                                    |  |
| 3.0                                    | clay becoming mottled gray/brn.                                                                                                  |                           |             |                                  |                 | archive sample from 5.3-5.8' BGS.                                                                                  |  |
|                                        |                                                                                                                                  |                           |             |                                  |                 |                                                                                                                    |  |
| 4.0                                    | TD: 6.0' BGS<br>10-15-02<br>1115                                                                                                 |                           |             |                                  |                 | Backgrounds<br>Nat: 6,900<br>PIB: 0.0<br>Back-filled boring w/ 3.0 bags of bentonite chips. Capped boring w/ soil. |  |
|                                        |                                                                                                                                  |                           |             |                                  |                 |                                                                                                                    |  |
|                                        |                                                                                                                                  |                           |             |                                  |                 |                                                                                                                    |  |
|                                        |                                                                                                                                  |                           |             |                                  |                 |                                                                                                                    |  |
|                                        |                                                                                                                                  |                           |             |                                  |                 |                                                                                                                    |  |
|                                        |                                                                                                                                  |                           |             |                                  |                 |                                                                                                                    |  |
|                                        |                                                                                                                                  |                           |             |                                  |                 |                                                                                                                    |  |
|                                        |                                                                                                                                  |                           |             |                                  |                 |                                                                                                                    |  |
|                                        |                                                                                                                                  |                           |             |                                  |                 |                                                                                                                    |  |
|                                        |                                                                                                                                  |                           |             |                                  |                 |                                                                                                                    |  |
| 5.0                                    |                                                                                                                                  |                           |             |                                  |                 |                                                                                                                    |  |
| 6.0                                    |                                                                                                                                  |                           |             |                                  |                 |                                                                                                                    |  |
| 7.0                                    |                                                                                                                                  |                           |             |                                  |                 |                                                                                                                    |  |
| 8.0                                    |                                                                                                                                  |                           |             |                                  |                 |                                                                                                                    |  |
| 9.0                                    |                                                                                                                                  |                           |             |                                  |                 |                                                                                                                    |  |
| 10.0                                   |                                                                                                                                  |                           |             |                                  |                 |                                                                                                                    |  |

ENG FORM 8056A-2, AUG 94

| TRW DRILLING LOG                                                                                                                                                                                                                                       |  | ST. LOUIS                                                                                                                                                                   |  | SLP 72147                                                    |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------|--|
| 1. COMPANY NAME<br>Snow E & I                                                                                                                                                                                                                          |  | 2. DRILLING SUBCONTRACTOR<br>MES, INC.                                                                                                                                      |  | 3. SHEET # 2                                                 |  |
| 4. PROJECT<br>FUS RAP / SLDs                                                                                                                                                                                                                           |  | 5. LOCATION<br>PSG Metals North Tract V.P.<br>City of St. Louis, IL 63114 P.S.                                                                                              |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-12C     |  |
| 7. NAME OF DRILLER<br>Chris Anthony                                                                                                                                                                                                                    |  | 8. HOLE LOCATION<br>N/A                                                                                                                                                     |  | 9. SURFACE ELEVATION<br>N/A                                  |  |
| 10. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-12C<br>Using 3/4" HSA and<br>3" x 3" Split Spoon                                                                                                                                  |  | 11. DATE STARTED<br>10-22-02                                                                                                                                                |  | 12. DATE COMPLETED<br>10-22-02                               |  |
| 13. OVERBURDEN THICKNESS<br>N/A                                                                                                                                                                                                                        |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A                                                                                                         |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A          |  |
| 16. DEPTH DRILLED INTO ROCK<br>N/A                                                                                                                                                                                                                     |  | 17. TOTAL DEPTH OF HOLE<br>6.0' BGS                                                                                                                                         |  | 18. TOTAL NUMBER OF CORE BOXES<br>2                          |  |
| 19. GEOTECHNICAL SAMPLES<br>DISTURBED <input checked="" type="checkbox"/> UNDISTURBED <input checked="" type="checkbox"/>                                                                                                                              |  | 20. SAMPLES FOR CHEMICAL ANALYSIS<br>TOC <input checked="" type="checkbox"/> METALS <input checked="" type="checkbox"/> OTHER (SPECIFY) <input checked="" type="checkbox"/> |  | 21. TOTAL CORE RECOVERED <input checked="" type="checkbox"/> |  |
| 22. DEPOSITION OF HOLE<br>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                                                                                                                          |  | 23. SIGNATURE OF INSPECTOR<br>William M. Hobbie                                                                                                                             |  | SCALE: Not to Scale                                          |  |
| <p>LOCATION SKETCH/COMMENTS</p> <p>North</p> <p>Building</p> <p>SLD 72159</p> <p>SLD 72147</p> <p>Moved boring 10.5' N (Moved from under trailer)</p> <p>SLD 72153</p> <p>SLD 72160</p> <p>SLD 72161</p> <p>Building</p> <p>SLD 72164</p> <p>Force</p> |  |                                                                                                                                                                             |  |                                                              |  |
| FUS RAP / SLDs                                                                                                                                                                                                                                         |  | SLD 72147                                                                                                                                                                   |  |                                                              |  |

| HTRW DRILLING LOG |                                                                                                               | CONTINUATION SHEET |          | HOLE NUMBER    |          |
|-------------------|---------------------------------------------------------------------------------------------------------------|--------------------|----------|----------------|----------|
| PROJECT           |                                                                                                               | INSPECTOR          |          | SHEET          |          |
| EUSRAP/SLOS       |                                                                                                               | Philip Statler     |          | SLD 72147      |          |
| DEPTH (ft)        | DESCRIPTION OF MATERIAL                                                                                       | WATER LOSS (ft)    | RECOVERY | SLT (lb)       | BLW (lb) |
| 0.0               | SM silty fine sand w/ some med. gravel, med. dense, poorly graded, dk brn, dry, trace cinders, trace glass    | 6500 0.0           | 2.0      | 72147 7233-2   | 29       |
| 1.0               | CL silty clay, med. stiff to stiff, med. plant, lt. brn, dry, few cinders, few slag, trace limestone cobbles. | 6600 0.0           | 2.0      |                | 10       |
| 2.0               |                                                                                                               | 6800 0.0           |          | SLD 72174 1450 | 13       |
| 3.0               |                                                                                                               | 6400 0.0           |          |                | 12       |
| 4.0               |                                                                                                               | 6700 0.0           |          |                | 7        |
| 5.0               |                                                                                                               | 6700 0.0           | 1.8/2.0  |                | 3        |
| 6.0               |                                                                                                               | 6500 0.0           |          |                | 4        |
| 7.0               |                                                                                                               | 6500 0.0           |          | SLD 72147 1450 | 6        |
| 8.0               | CL clay turning gry.                                                                                          | 7100 0.0           | 2.0      |                | 3        |
| 9.0               |                                                                                                               | 6600 0.0           | 2.0      |                | 3        |
| 10.0              |                                                                                                               | 6900 0.0           |          |                | 7        |
| 11.0              |                                                                                                               | 6900 0.0           |          | SLD 72147 1305 | 9        |
| 12.0              | TD: 6.0' BGS<br>10-22-02<br>1500                                                                              |                    |          |                |          |
| 13.0              |                                                                                                               |                    |          |                |          |
| 14.0              |                                                                                                               |                    |          |                |          |
| 15.0              |                                                                                                               |                    |          |                |          |
| 16.0              |                                                                                                               |                    |          |                |          |
| 17.0              |                                                                                                               |                    |          |                |          |
| 18.0              |                                                                                                               |                    |          |                |          |
| 19.0              |                                                                                                               |                    |          |                |          |
| 20.0              |                                                                                                               |                    |          |                |          |

archive sample from 3.3-3.8' BGS.

archive sample from 5.5-6.0' BGS.

Back ground  
NaI: 6600  
PID: 0.0  
Back-filled  
boring w/  
3.0 bags of  
barite  
chips. Capped  
boring w/  
soil.

\_\_\_\_\_



1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                    | HOLE NUMBER  |            |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------|--------------|------------|
| PROJECT: FUSRAP/SLDS                   |                                                                                                                    | 72148        |            |
| INSPECTOR: Phillip Statler             |                                                                                                                    | SHEET 2 OF 2 |            |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                                                           | RECOVERY (%) | SLOW COUNT |
| 0.0                                    | SM: silty fine sand w/ some med. gravel, med. dense, poorly graded, dk. brn. dry, some cinders and slag, few rust. | 6400<br>0.0  | 8          |
| 1.0                                    |                                                                                                                    | 5600<br>0.0  | 13         |
| 2.0                                    | CL: silty clay, med. stiff to stiff, med. plast, dk. brn. dry, trace limest. cobbles.                              | 6000<br>0.0  | 11         |
| 3.0                                    |                                                                                                                    | 5800<br>0.0  | 9          |
| 4.0                                    | few brick frags, 1 lime-stone cobble.                                                                              | 6500<br>0.0  | 3          |
| 5.0                                    | 1 limestone cobble                                                                                                 | 6600<br>0.0  | 7          |
| 6.0                                    |                                                                                                                    | 6100<br>0.0  | 8          |
| 7.0                                    |                                                                                                                    | 6000<br>0.0  | 10         |
| 8.0                                    |                                                                                                                    | 6500<br>0.0  | 2          |
| 9.0                                    | clay turning H. gray.                                                                                              | 5800<br>0.0  | 3          |
| 10.0                                   | some cinders and slag                                                                                              | 6000<br>0.0  | 3          |
| 11.0                                   |                                                                                                                    | 6300<br>0.0  | 9          |
| 12.0                                   | TD: 6.0' BG5<br>1320<br>10-21-02                                                                                   |              |            |
| 13.0                                   |                                                                                                                    |              |            |
| 14.0                                   |                                                                                                                    |              |            |
| 15.0                                   |                                                                                                                    |              |            |
| 16.0                                   |                                                                                                                    |              |            |
| 17.0                                   |                                                                                                                    |              |            |
| 18.0                                   |                                                                                                                    |              |            |
| 19.0                                   |                                                                                                                    |              |            |
| 20.0                                   |                                                                                                                    |              |            |
| 21.0                                   |                                                                                                                    |              |            |
| 22.0                                   |                                                                                                                    |              |            |
| 23.0                                   |                                                                                                                    |              |            |
| 24.0                                   |                                                                                                                    |              |            |
| 25.0                                   |                                                                                                                    |              |            |
| 26.0                                   |                                                                                                                    |              |            |
| 27.0                                   |                                                                                                                    |              |            |
| 28.0                                   |                                                                                                                    |              |            |
| 29.0                                   |                                                                                                                    |              |            |
| 30.0                                   |                                                                                                                    |              |            |

REMARKS: same slag appears "crystalline".  
(archive sample from 2.5-3.0' BG5)  
archive sample from 5.5-6.0' BG5  
Backgrounds  
Nat: 6,200  
PID: 0.0  
Back-filled boring w/ 3.0 bags of bentonite chips. Capped boring w/ soil.

# TRW DRILLING LOG

DISTRICT

St. Louis

HOLE NUMBER

SLD 72149

COMPANY NAME

Shaw E + I

2. DRILLING SUBCONTRACTOR

MES, Inc.

SHEET

SHEETS

1 of 2

1. PROJECT

FUS RAP / SLDs

4. LOCATION

PSG Metals North Tract U.P.  
City of Venice IL V.P.R.

5. NAME OF DRILLER

Chris Anthony

6. MANUFACTURER'S DESIGNATION OF DRILL

Diedrich D-120

7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT

Diedrich D-120  
using 4 1/2" HSA and  
3" x 2" Split Spoon

8. HOLE LOCATION

N/A

9. SURFACE ELEVATION

N/A

PID 1A-16-02 NAI

LUD 172059

10. DATE STARTED

10-16-02

11. DATE COMPLETED

10-16-02

+A 100/100 Cal Date 12-12-02 Bgk = 57200

12. OVERBURDEN THICKNESS

N/A

15. DEPTH GROUNDWATER ENCOUNTERED

N/A

13. DEPTH DRILLED INTO ROCK

N/A

16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED

N/A

14. TOTAL DEPTH OF HOLE

6.0' BGS

17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)

N/A

18. GEOTECHNICAL SAMPLES

0

19. TOTAL NUMBER OF CORE BOXES

0

20. SAMPLES FOR CHEMICAL ANALYSIS

0

21. TOTAL CORE RECOVERY

0%

22. DEPOSITION OF HOLE

0

23. SIGNATURE OF INSPECTOR

William A. Hatten

LOCATION SKETCH/COMMENTS

North

Susan L. Adams

SCALE: Not to scale

building

SLD  
72153

SLD  
72149

SLD  
72154

building

PROJECT

FUS RAP / SLDs

HOLE NO.

SLD 72149

EM 1110-1-4000  
1 Nov 38

| HERW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                  |                                  |              |                               |            | SLD 72149 |  |                                                                                                                                    |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------|-------------------------------|------------|-----------|--|------------------------------------------------------------------------------------------------------------------------------------|
| FUSRAP/SLDS                            |                                                                                                                  | INSPECTOR Phillip Statler        |              | SHEET 2 OF 2                  |            |           |  |                                                                                                                                    |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                                                         | WATER CONTENT (%)                | RECOVERY (%) | SLD NO.                       | BLOW COUNT | REMARKS   |  |                                                                                                                                    |
| SM<br>1.0                              | Silty fine sand w/ some med. gravel, med. dense, poorly graded, to brn, dry, some cinders, slag and brick frags. | 5900<br>0.0                      | 2.0/<br>2.0  | SLD 72149<br>10-16-02<br>1015 | 29         |           |  |                                                                                                                                    |
|                                        |                                                                                                                  | 6500<br>0.0                      |              |                               | 31         |           |  |                                                                                                                                    |
|                                        |                                                                                                                  | 5700<br>0.0                      |              |                               | 15         |           |  |                                                                                                                                    |
|                                        |                                                                                                                  | 6800<br>0.0                      |              |                               | 10         |           |  |                                                                                                                                    |
| CL<br>2.0<br>3.0<br>4.0<br>5.0<br>6.0  | Silty clay, stiff, med. plastic, to brn, dry.<br><br>clay slightly gray.                                         | 6400<br>0.0                      | 1.6/<br>2.0  | SLD 72149<br>archive<br>1015  | 7          |           |  |                                                                                                                                    |
|                                        |                                                                                                                  | 5800<br>0.0                      |              |                               | 9          |           |  |                                                                                                                                    |
|                                        |                                                                                                                  | 6700<br>0.0                      |              |                               | 13         |           |  |                                                                                                                                    |
|                                        |                                                                                                                  | N/A<br>N/A                       | no recovery  |                               | 12         |           |  |                                                                                                                                    |
|                                        |                                                                                                                  | 6300<br>0.0                      | 1.9/<br>2.0  |                               | 4          |           |  |                                                                                                                                    |
|                                        |                                                                                                                  | 5900<br>0.0                      |              |                               | 4          |           |  |                                                                                                                                    |
|                                        |                                                                                                                  | 5800<br>0.0                      |              |                               | 5          |           |  |                                                                                                                                    |
|                                        |                                                                                                                  | 6500<br>0.0                      |              |                               | 5          |           |  |                                                                                                                                    |
|                                        |                                                                                                                  | TD: 6.0' BGS<br>10-16-02<br>1030 |              | NO RECOVERY                   |            |           |  | Background:<br>NAT: 5,700<br>PID: 0.0<br><br>Backfilled<br>boring w/<br>3 bags of<br>bestonite<br>chips. Capped<br>boring w/ soil. |

| UTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                |  | DISTRICT                                                                  |  | HOLE NUMBER                                         |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------|--|-----------------------------------------------------|--|
| 1. COMPANY NAME<br>Shaw E + I                                                                                                                                                                                                                                                                                                                    |  | St. Louis                                                                 |  | SLD 72150                                           |  |
| 2. DRILLING SUBCONTRACTOR<br>MES, Inc.                                                                                                                                                                                                                                                                                                           |  |                                                                           |  | SHEET 1 of 4                                        |  |
| 3. PROJECT<br>FUS RAP / SLDS                                                                                                                                                                                                                                                                                                                     |  | 4. LOCATION RSC Metals North Tract<br>P.S. City of Venice, IL VA (Area 0) |  |                                                     |  |
| 5. NAME OF DRILLER<br>Chris Anthony                                                                                                                                                                                                                                                                                                              |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120                  |  |                                                     |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using 3/4" HSA and<br>3" x 2' Split Spoon                                                                                                                                                                                                                             |  | 8. HOLE LOCATION<br>N/A                                                   |  |                                                     |  |
|                                                                                                                                                                                                                                                                                                                                                  |  | 9. SURFACE ELEVATION<br>N/A                                               |  |                                                     |  |
| PID 10-2-02 NAT LUD 172059<br>to 100/100 Sol Date 12-12-02 BgK = 5700                                                                                                                                                                                                                                                                            |  | 10. DATE STARTED<br>10-2-02                                               |  | 11. DATE COMPLETED<br>10-2-02                       |  |
| 12. OVERBURDEN THICKNESS<br>N/A                                                                                                                                                                                                                                                                                                                  |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br>10.0' BGS - N/A P.S.                 |  |                                                     |  |
| 13. DEPTH DRILLED INTO ROCK<br>N/A                                                                                                                                                                                                                                                                                                               |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A       |  |                                                     |  |
| 14. TOTAL DEPTH OF HOLE<br>22.0' BGS                                                                                                                                                                                                                                                                                                             |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                       |  |                                                     |  |
| 18. GEOTECHNICAL SAMPLES<br>DISTURBED <input checked="" type="checkbox"/> UNDISTURBED <input checked="" type="checkbox"/>                                                                                                                                                                                                                        |  | 19. TOTAL NUMBER OF CORE BOXES<br><input checked="" type="checkbox"/>     |  |                                                     |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS<br>VOC <input checked="" type="checkbox"/> METALS <input checked="" type="checkbox"/> OTHER (SPECIFY) <input checked="" type="checkbox"/> RAD <input checked="" type="checkbox"/>                                                                                                                              |  | OTHER (SPECIFY) <input checked="" type="checkbox"/>                       |  | OTHER (SPECIFY) <input checked="" type="checkbox"/> |  |
| 22. DISPOSITION OF HOLE<br>SACRIFICED <input checked="" type="checkbox"/> MONITORING WELL <input checked="" type="checkbox"/> OTHER (SPECIFY) <input checked="" type="checkbox"/>                                                                                                                                                                |  | 23. SIGNATURE OF INSPECTOR<br>Phillip M. Stath                            |  |                                                     |  |
| <p>LOCATION SKETCH/COMMENTS</p> <p>North ↑</p> <p>Concrete pad (entrance)</p> <p>Susan L. Adams</p> <p>fence</p> <p>SCALE: Not to scale</p> <p>SLD 72143</p> <p>SLD 72149</p> <p>40' from flag on fence (N. flag)</p> <p>26' from flag on fence (S. flag)</p> <p>Moved SLD 72150 17' NE to co-locate w/ "Area 0"</p> <p>SLD 72150 ("Area 0")</p> |  |                                                                           |  |                                                     |  |
| FUS RAP / SLDS                                                                                                                                                                                                                                                                                                                                   |  | HOLE NO. SLD 72150                                                        |  |                                                     |  |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                               |                              |                      |                                |                   | HOLE NUMBER<br>SLD 72150 |                                                 |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------|------------------------------|----------------------|--------------------------------|-------------------|--------------------------|-------------------------------------------------|
| PROJECT<br>FUSRAP/SLDS                 |                                                                                                               | INSPECTOR<br>Phillip Statler |                      |                                |                   | SHEET<br>2 - 4           |                                                 |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS<br>(ft)                                                                              | WATER<br>IN<br>FT            | RECOVERY<br>IN<br>FT | WATER<br>IN<br>FT              | WATER<br>IN<br>FT | WATER<br>IN<br>FT        | REMARKS<br>(ft)                                 |
| 1.0                                    | Silty fine sand w/ some med. gravel, med. dense, poorly graded, lt. brn/gray, trace glass.                    | 5200<br>0.0                  | 2.0<br>2.0           | SLD<br>72150<br>10-7-93<br>0.0 | 11                |                          |                                                 |
| 1.0                                    | trace clay w/ some cinders trace slag.                                                                        | 5300<br>0.0                  |                      |                                | 15                |                          |                                                 |
| 1.0                                    | few coarse gravel.                                                                                            | 5400<br>0.0                  |                      |                                | 24                |                          |                                                 |
| 2.0                                    |                                                                                                               | 5500<br>0.0                  |                      | SLD<br>72150<br>0.0            | 22                |                          |                                                 |
| 2.0                                    | some cinders and some slag (reddish in color), trace coarse gravel.                                           | 5500<br>0.0                  | 1.6<br>2.0           |                                | 23                |                          |                                                 |
| 3.0                                    |                                                                                                               | 5700<br>0.0                  |                      |                                | 9                 |                          |                                                 |
| 3.0                                    |                                                                                                               | 5700<br>0.0                  |                      | SLD<br>72150<br>0.0            | 7                 |                          |                                                 |
| 4.0                                    | Silty clay, med. dense, med. part., dry, dry.                                                                 | N/A                          | no recovery          |                                | 5                 |                          |                                                 |
| 4.0                                    |                                                                                                               | N/A                          |                      |                                | 5                 |                          |                                                 |
| 5.0                                    | N/A*                                                                                                          |                              |                      |                                | 5                 |                          | * See boring log for SLD 721508 for 4.0-6.0 BGS |
| 5.0                                    |                                                                                                               |                              |                      |                                | 5                 |                          |                                                 |
| 6.0                                    |                                                                                                               |                              |                      |                                | 4                 |                          |                                                 |
| 6.0                                    |                                                                                                               | 5500<br>0.0                  | 1.5<br>2.0           |                                | 3                 |                          |                                                 |
| 7.0                                    | Trace brick frags and coarse gravel moist                                                                     | 5100<br>0.0                  |                      |                                | 2                 |                          |                                                 |
| 7.0                                    |                                                                                                               | 5600<br>0.0                  |                      | SLD<br>72150<br>0.0            | 1                 |                          | archive sample taken from 7.0-7.5 BGS           |
| 8.0                                    |                                                                                                               | N/A                          | no recovery          |                                | 1                 |                          | archive sample from 8.3-8.8 BGS                 |
| 8.0                                    | Wet                                                                                                           | 5800<br>0.0                  | 1.5<br>2.0           |                                | 1                 |                          | well rounded quartz gravel (and quartz sand)    |
| 9.0                                    | Silty fine sand, very loose, poorly graded, lt. gray, well rounded sand, wet, archy, well rounded med. archy. | 5400<br>0.0                  |                      | SLD<br>72150<br>0.0            | 1                 |                          |                                                 |
| 9.0                                    | Small wood frags, weathered, clay, trace roots trace green/gray clay                                          | 6200<br>0.0                  | SLD 7279             | SLD<br>72150<br>0.0            | 2                 |                          | archive sample from 9.0-9.6 BGS                 |
| 10.0                                   |                                                                                                               | N/A                          | no recovery          |                                | 2                 |                          |                                                 |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                      |                             |                 |                                     |                   |                                                   | WELL NUMBER<br>SLD 72150 |
|----------------------------------------|----------------------------------------------------------------------|-----------------------------|-----------------|-------------------------------------|-------------------|---------------------------------------------------|--------------------------|
| PROJECT<br>FUSRAP/SLDS                 |                                                                      | INSPECTOR<br>Phillip Stappa |                 | SHEET<br>3 OF 4                     |                   |                                                   | SHEET 3                  |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS<br>(1)                                      | WATER CONTENT<br>(%)<br>(2) | RECOVERY<br>(3) | ANALYTICAL<br>SAMPLE NO.<br>(4)     | BLOW COUNT<br>(5) | REMARKS<br>(6)                                    |                          |
| 10.0                                   | some sand, increasing<br>well rounded, trace well<br>rounded gravel. | 5500<br>0.0                 | 1.8             |                                     | 1                 | Quartz sand<br>and gravel                         |                          |
| 11.0                                   |                                                                      | 5700<br>0.0                 | 2.0             | SLD<br>72150<br>archive<br>10/11/98 | 1                 | ← archive sample<br>from 10.6-11.1'<br>BGS        |                          |
| 12.0                                   | silty clay, soft, med. plastic,<br>gry., saturated.                  | 5500<br>0.0                 | 6472800         | weight<br>of<br>hammer              | 2                 | ← archive sample<br>from 11.1-11.6'<br>BGS.       |                          |
| 13.0                                   |                                                                      | N/A                         | no recovery     |                                     | 2                 |                                                   |                          |
| 14.0                                   | silty fine sand, loose,<br>poorly graded, gry. to blk,<br>saturated  | 5500<br>0.0                 | 1.8             |                                     | 2                 |                                                   |                          |
| 15.0                                   | some wood fragments,<br>weathered, flaky, blk.                       | 5400<br>0.0                 | 2.0             | SLD<br>72150<br>archive<br>11/02    | 2                 | archive sample<br>taken from<br>12.5-13.0' BGS    |                          |
| 16.0                                   |                                                                      | 5000<br>0.0                 |                 |                                     | 2                 |                                                   |                          |
| 17.0                                   | some clay, gry.                                                      | 5800<br>0.0                 |                 |                                     | 3                 |                                                   |                          |
| 18.0                                   | well rounded sand and<br>med. gravel                                 | 5500<br>0.0                 | 1.3             | SLD<br>72150<br>archive<br>11/02    | 1                 | Quartz sand<br>and gravel.                        |                          |
| 19.0                                   |                                                                      | 5400<br>0.0                 | 2.0             |                                     | 1                 | archive<br>sample<br>taken from<br>14.0-14.5' BGS |                          |
| 20.0                                   | wood fragments, weathered,<br>flaky, blk.                            | 5100<br>0.0                 |                 |                                     | 2                 |                                                   |                          |
| 21.0                                   |                                                                      | N/A                         | no recovery     |                                     | 2                 |                                                   |                          |
| 22.0                                   | wood fragments, weathered,<br>flaky, blk.                            | 5500<br>0.0                 | 1.8             |                                     | 2                 |                                                   |                          |
| 23.0                                   |                                                                      | 6100<br>0.0                 | 2.0             |                                     | 1                 |                                                   |                          |
| 24.0                                   |                                                                      | 5500<br>0.0                 |                 | SLD<br>72150<br>archive<br>11/02    | 3                 | archive sample<br>taken from<br>17.2-             |                          |
| 25.0                                   | some clay, gry.                                                      | 5400<br>0.0                 |                 |                                     | 4                 |                                                   |                          |
| 26.0                                   |                                                                      |                             | no recovery     |                                     |                   |                                                   |                          |
| 27.0                                   | few wood frags,<br>weathered, flaky                                  | 6000<br>0.0                 | 1.1             | 10/11/98                            | 3                 | ← in-situ<br>spooned<br>clay has<br>"swampy" odor |                          |
| 28.0                                   | silty clay, soft, med.<br>plastic, gry., saturated.                  | 5200<br>0.0                 | 2.0             | SLD<br>72150<br>archive<br>11/02    | 3                 |                                                   |                          |
| 29.0                                   |                                                                      | N/A                         | no recovery     |                                     | 4                 | archive<br>sample<br>from 18.3-<br>18.8' BGS      |                          |
| 30.0                                   |                                                                      | N/A                         | no recovery     |                                     | 4                 |                                                   |                          |

EM 1110-1-4000  
1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                  |                          |               |               |                 |                                                                                                                                                     | WELL NO. 72150 |
|----------------------------------------|----------------------------------|--------------------------|---------------|---------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| PROJECT FUSRAP/SLDS                    |                                  | INSPECTOR Philip Statler |               | SHEET 4 OF 4  |                 | DATE 11/1/98                                                                                                                                        |                |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS (ft)    | SP. CORR. (ft)           | RECOVERY (ft) | WELL NO. (ft) | BLOW COUNT (ft) | REMARKS (ft)                                                                                                                                        |                |
| CL 21.0                                | Same as above                    | 5300 0.0                 | 1.7/          | 72150         | 1               |                                                                                                                                                     |                |
|                                        |                                  | 5500 0.0                 | 2.0           |               | 2               |                                                                                                                                                     |                |
|                                        |                                  | 5400 0.0                 |               |               | 3               |                                                                                                                                                     |                |
| 22.0                                   |                                  | N/A                      | no recovery   |               | 1               |                                                                                                                                                     |                |
|                                        | TD: 22.0' BGS<br>10-2-02<br>1330 |                          |               |               |                 | Back ground.<br>Nat: 5200<br>PID: 0.0<br>Back-filled<br>boring w/<br>slurry<br>grout (at<br>80-90% solids<br>(60 gal.)<br>Capped boring<br>w/ soil. |                |
| 3.0                                    |                                  |                          |               |               |                 |                                                                                                                                                     |                |
| 4.0                                    |                                  |                          |               |               |                 |                                                                                                                                                     |                |
| 5.0                                    |                                  |                          |               |               |                 |                                                                                                                                                     |                |
| 6.0                                    |                                  |                          |               |               |                 |                                                                                                                                                     |                |
| 7.0                                    |                                  |                          |               |               |                 |                                                                                                                                                     |                |
| 8.0                                    |                                  |                          |               |               |                 |                                                                                                                                                     |                |
| 9.0                                    |                                  |                          |               |               |                 |                                                                                                                                                     |                |
| 10.0                                   |                                  |                          |               |               |                 |                                                                                                                                                     |                |





1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                               |                                     |                  |                           |                         |                                                                                                                                     | WELL NUMBER<br>SLD 72150R |             |     |
|----------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------|------------------|---------------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------|-----|
| PROJECT<br>FUSRAP/SLDS                 |                                                                                               | INSPECTOR<br>Phillip Statter        |                  | SHEET<br>2 OF 2           |                         | SHEETS                                                                                                                              |                           |             |     |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS<br>(ft)                                                              | WELL CORRELATION<br>IN FEET<br>(ft) | RECOVERY<br>(ft) | WATER TABLE<br>DEPTH (ft) | SLUG CORRECTION<br>(ft) | REMARKS<br>(ft)                                                                                                                     |                           |             |     |
| 1.0                                    | See<br>SLD 72150<br>for soil<br>and sample<br>descriptions.<br>(From 0.0 -<br>4.0' BGS)       | /                                   | /                | /                         | /                       | Hand pt<br>Augered<br>down to<br>4.0' BGS<br>and hand<br>augered to<br>6.0' BGS.                                                    |                           |             |     |
| 2.0                                    |                                                                                               |                                     |                  |                           |                         |                                                                                                                                     |                           |             |     |
| 3.0                                    |                                                                                               |                                     |                  |                           |                         |                                                                                                                                     |                           |             |     |
| 4.0                                    |                                                                                               |                                     |                  |                           |                         |                                                                                                                                     |                           |             |     |
| 4.0                                    | Silty clay, med. to<br>red, plast. to stiff, dry,<br>trace fine sand, silty,<br>trace cinders | 5700<br>0.0                         | /                | /                         | N/A                     |                                                                                                                                     |                           |             |     |
| 5.0                                    |                                                                                               |                                     |                  |                           |                         |                                                                                                                                     |                           | 5800<br>0.0 | N/A |
| 5.0                                    |                                                                                               |                                     |                  |                           |                         |                                                                                                                                     |                           | 4800<br>0.0 | N/A |
| 6.0                                    | Some well rounded<br>sand and gravel, trace<br>limonite stain                                 | 5500<br>0.0                         | /                | /                         | N/A                     |                                                                                                                                     |                           |             |     |
| 6.0                                    |                                                                                               |                                     |                  |                           |                         |                                                                                                                                     |                           | 5500<br>0.0 | N/A |
| 7.0                                    | TD: 6.0' BGS<br>10-3-02<br>1130                                                               | /                                   | /                | /                         | /                       | Background:<br>Nat: 5,200<br>PTD: 0.0<br>Backfilled<br>boring w/<br>2.0 bags of<br>bentonite<br>chips. Capped<br>boring w/<br>soil. |                           |             |     |
| 8.0                                    |                                                                                               |                                     |                  |                           |                         |                                                                                                                                     |                           |             |     |
| 9.0                                    |                                                                                               |                                     |                  |                           |                         |                                                                                                                                     |                           |             |     |
| 10.0                                   |                                                                                               |                                     |                  |                           |                         |                                                                                                                                     |                           |             |     |

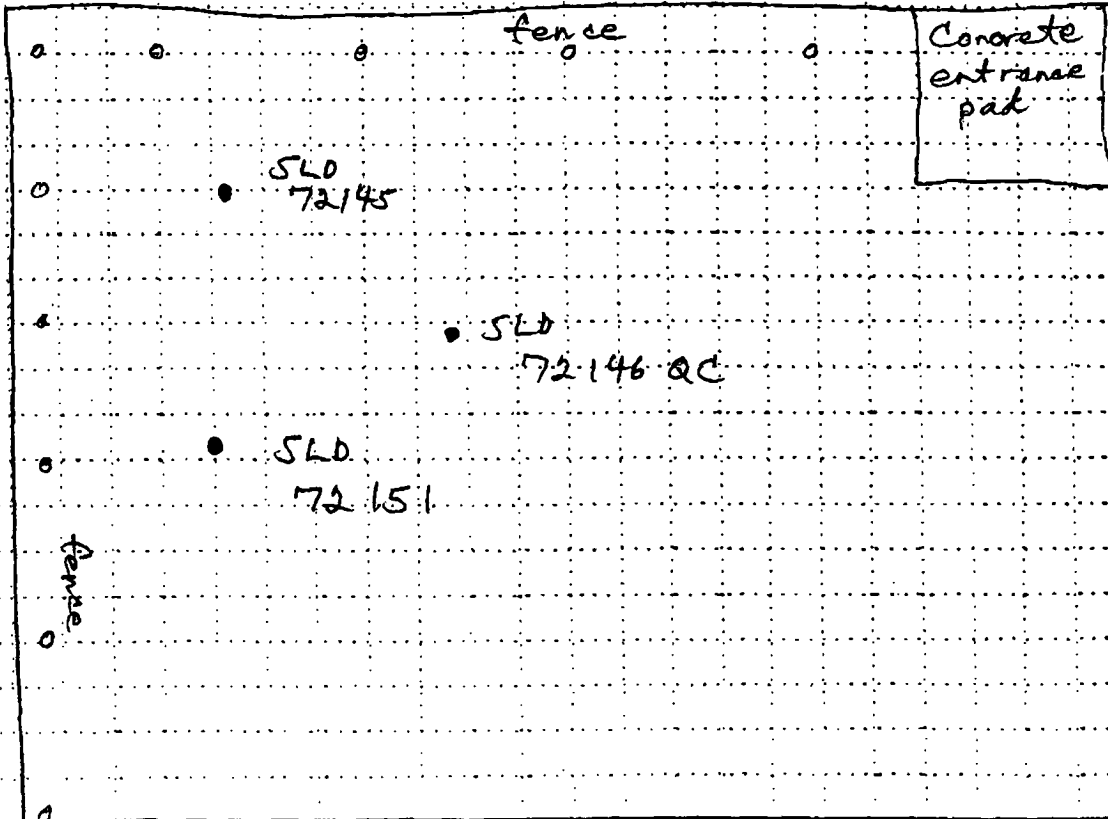
| HTRW DRILLING LOG                                                                                                                       |  | DISTRICT                                                                           |  | HOLE NUMBER                                                                |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------|--|
| COMPANY NAME<br><b>Shaw E + I</b>                                                                                                       |  | St. Louis                                                                          |  | SLD 72151                                                                  |  |
| 1. PROJECT<br><b>FUS RAP / SLDS</b>                                                                                                     |  | 2. DRILLING SUBCONTRACTOR<br><b>MES, Inc.</b>                                      |  | SHEET <b>1</b> OF <b>2</b>                                                 |  |
| 3. NAME OF DRILLER<br><b>Chris Anthony</b>                                                                                              |  | 4. LOCATION<br><b>PSC Metals North tract V.P.</b><br><del>City of Venice, IL</del> |  | 5. MANUFACTURER'S DESIGNATION OF DRILL<br><b>Diedrich D-120</b>            |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><b>Diedrich D-120</b><br><b>using 4" HSA and</b><br><b>3" x 2" Split Spoon</b> |  | 8. HOLE LOCATION<br><b>N/A</b>                                                     |  | 9. SURFACE ELEVATION<br><b>N/A</b>                                         |  |
| PID 10-14-02 NAI LUD 172059<br>to 100/100 Cal Date 12-13-02 BgK = 6300                                                                  |  | 10. DATE STARTED<br><b>10-14-02</b>                                                |  | 11. DATE COMPLETED<br><b>10-14-02</b>                                      |  |
| 12. OVE/BURDEN THICKNESS<br><b>N/A</b>                                                                                                  |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br><b>N/A</b>                                    |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><b>N/A</b> |  |
| 13. DEPTH DRILLED INTO ROCK<br><b>N/A</b>                                                                                               |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><b>N/A</b>                         |  | 14. TOTAL DEPTH OF HOLE<br><b>6.0' BGS</b>                                 |  |
| 18. GEOTECHNICAL SAMPLES                                                                                                                |  | DISTURBED                                                                          |  | UNDISTURBED                                                                |  |
| <input checked="" type="checkbox"/>                                                                                                     |  | <input checked="" type="checkbox"/>                                                |  | <input checked="" type="checkbox"/>                                        |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                       |  | ROCK                                                                               |  | METALS                                                                     |  |
| <input checked="" type="checkbox"/>                                                                                                     |  | <input checked="" type="checkbox"/>                                                |  | <input checked="" type="checkbox"/>                                        |  |
| 22. DEPOSITION OF HOLE                                                                                                                  |  | SACFILLED                                                                          |  | MONITORING WELL                                                            |  |
| <input checked="" type="checkbox"/>                                                                                                     |  | <input checked="" type="checkbox"/>                                                |  | <input checked="" type="checkbox"/>                                        |  |
| 19. TOTAL NUMBER OF CORE BOXES                                                                                                          |  | OTHER (SPECIFY)                                                                    |  | OTHER (SPECIFY)                                                            |  |
| <input checked="" type="checkbox"/>                                                                                                     |  | <b>RAP</b>                                                                         |  | <input checked="" type="checkbox"/>                                        |  |
| 21. TOTAL CORE RECOVERY                                                                                                                 |  | OTHER (SPECIFY)                                                                    |  | OTHER (SPECIFY)                                                            |  |
| <input checked="" type="checkbox"/>                                                                                                     |  | <input checked="" type="checkbox"/>                                                |  | <input checked="" type="checkbox"/>                                        |  |
| 23. SIGNATURE OF INSPECTOR                                                                                                              |  | <b>B. H. H. H.</b>                                                                 |  | <b>R. H. H.</b>                                                            |  |

LOCATION SKETCH/COMMENTS

*Susan L. Adams*  
*Bremen Ave.*

SCALE: Not to scale

North Street Ave.



FUS RAP / SLDS

SLD 72151

EM 1110-1-4000  
1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                                               |                              |                 |                           |                    | HOLE NUMBER<br>SLD 72151                                                |  |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------|---------------------------|--------------------|-------------------------------------------------------------------------|--|
| PROJECT<br>FUSRAP/SLDS                 |                                                                                                                                               | INSPECTOR<br>Phillip Statler |                 | SHEET<br>2                |                    | SHEETS<br>2                                                             |  |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS<br>(ft)                                                                                                              | WATER<br>(ft)                | RECOVERY<br>(%) | ANALYTICAL<br>SAMPLE NO.  | BLOW COUNT<br>(ft) | REMARKS                                                                 |  |
| SM<br>1.0                              | Silty fine sand w/ few med. gravel, med. dense, poorly graded, H. brn to dk. brn, dry, some windows and slag, trace brick frags, trace glass. | 6400<br>0.0                  | 1.8/<br>2.0     | SLD 72151<br>1446         | 17                 |                                                                         |  |
|                                        |                                                                                                                                               | 6500<br>0.0                  |                 |                           | 16                 |                                                                         |  |
|                                        |                                                                                                                                               | 6000<br>0.0                  |                 |                           | 17                 |                                                                         |  |
|                                        |                                                                                                                                               | 7000<br>0.0                  |                 | no recovery               | 10                 |                                                                         |  |
| CL<br>2.0                              | Silty clay, med. str., med. plast., dk. brn., dry.                                                                                            | 6400<br>0.0                  | 1.6/<br>2.0     | SLD 72151<br>1446         | 5                  | archive sample from 2.5-3.0' BGS                                        |  |
|                                        |                                                                                                                                               | 6600<br>0.0                  |                 |                           | 6                  |                                                                         |  |
|                                        |                                                                                                                                               | 6500<br>0.0                  |                 |                           | 8                  |                                                                         |  |
|                                        |                                                                                                                                               | N/A<br>N/A                   | no recovery     | 10                        |                    |                                                                         |  |
|                                        |                                                                                                                                               | 6600<br>0.0                  | 2.0/<br>2.0     |                           | 4                  |                                                                         |  |
|                                        |                                                                                                                                               | 5900<br>0.0                  |                 |                           | 6                  |                                                                         |  |
|                                        |                                                                                                                                               | 6300<br>0.0                  |                 |                           | 10                 |                                                                         |  |
|                                        |                                                                                                                                               | 6200<br>0.0                  |                 | SLD 72151<br>archive 1500 | 12                 |                                                                         |  |
| 6.0                                    | TD: 6.0' BGS<br>1500<br>10-14-02                                                                                                              |                              |                 |                           |                    | Back-filled boring w/ 3 bags of bentonite chips. Capped boring w/ soil. |  |
|                                        |                                                                                                                                               |                              |                 |                           |                    |                                                                         |  |

ENG FORM 5056A-2, AUG 94

FILE 72152

EM 1110-1-1000  
1 Nov 88

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                 | HOLE NUMBER<br>SLD 72152    |                      |
|----------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------|----------------------|
| PROJECT<br>FUSRAP/SLDS                 |                                                                                                 | INSPECTOR<br>Philip Statler |                      |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS                                                                        | WALL CORNER<br>NO. 1        | WALL CORNER<br>NO. 2 |
| 0.0                                    | Silty fine sand w/ some med. gravel, loose, poorly graded, dk. brn., dry, few cinders and slag. | 6800 0.0                    | RECOVERY 1.6/2.0     |
| 1.0                                    |                                                                                                 | 6700 0.0                    |                      |
| 2.0                                    | trace clay                                                                                      | 6500 0.0                    |                      |
| 3.0                                    |                                                                                                 | 6400 0.0                    | no recovery          |
| 4.0                                    |                                                                                                 | 6300 0.0                    | 1.9/2.0              |
| 5.0                                    | Silty clay, med. stee, med. platy, lt. brn., dry, trace cinders.                                | 7200 0.0                    |                      |
| 6.0                                    |                                                                                                 | 7400 0.0                    |                      |
| 7.0                                    |                                                                                                 | 7600 0.0                    |                      |
| 8.0                                    |                                                                                                 | 6700 0.0                    | 2.0/2.0              |
| 9.0                                    |                                                                                                 | 6500 0.0                    |                      |
| 10.0                                   |                                                                                                 | 7500 0.0                    |                      |
| 11.0                                   |                                                                                                 | 7500 0.0                    |                      |
| 12.0                                   |                                                                                                 |                             |                      |
| 13.0                                   |                                                                                                 |                             |                      |
| 14.0                                   |                                                                                                 |                             |                      |
| 15.0                                   |                                                                                                 |                             |                      |
| 16.0                                   |                                                                                                 |                             |                      |
| 17.0                                   |                                                                                                 |                             |                      |
| 18.0                                   |                                                                                                 |                             |                      |
| 19.0                                   |                                                                                                 |                             |                      |
| 20.0                                   |                                                                                                 |                             |                      |

SM

CL

TD: 6.0' BGs  
10-15-02  
1450

Background:  
Nat: 6900  
PID: 0.0  
Back-filled  
boring w/  
3 bags of  
bentonite  
chips. Capped  
w/sail.

archive sample from 2.5-3.0' BGs

archive sample from 5.5-6.0' BGs

FUSRAP/SLDS

SLD 72152





1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                              | HOLE NUMBER            |                    |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------|------------------------|--------------------|
| PROJECT: FUSRAP/SLDS                   |                                                                                                              | HOLE NUMBER: SLB 72153 |                    |
| INSPECTOR: Phillip Statler             |                                                                                                              | SHEET 2 OF 2           |                    |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                                                     | WATER CONTENT (%)      | SLURRY CONTENT (%) |
| 0.0                                    | silly fine sand w/ some med. gravel med. dense, poorly graded, lt. brn. to brn., dry.                        | 5600                   | 0.0                |
| 1.0                                    | Some cinders, some slag, trace bricks.                                                                       | 5900                   | 0.0                |
| 2.0                                    | limestone cobble trace clay (brown), limestone cobble                                                        | 6000                   | 0.0                |
| 3.0                                    | limestone cobble silty clay, med. stiff to stiff, med. plastic, dk brn. to lt. gray, dry, trace brick frags. | 5800                   | 0.0                |
| 4.0                                    | trace cinders                                                                                                | 6100                   | 0.0                |
| 5.0                                    | trace wood frags (worth) clay mottled gray-brn.                                                              | 5600                   | 0.0                |
| 6.0                                    |                                                                                                              | 6000                   | 0.0                |
| 7.0                                    |                                                                                                              | 5500                   | 0.0                |
| 8.0                                    |                                                                                                              | 5700                   | 0.0                |
| 9.0                                    |                                                                                                              | 6000                   | 0.0                |
| 10.0                                   |                                                                                                              | 6300                   | 0.0                |
| 11.0                                   |                                                                                                              | 5900                   | 0.0                |
| 12.0                                   |                                                                                                              |                        |                    |
| 13.0                                   |                                                                                                              |                        |                    |
| 14.0                                   |                                                                                                              |                        |                    |
| 15.0                                   |                                                                                                              |                        |                    |
| 16.0                                   |                                                                                                              |                        |                    |
| 17.0                                   |                                                                                                              |                        |                    |
| 18.0                                   |                                                                                                              |                        |                    |
| 19.0                                   |                                                                                                              |                        |                    |
| 20.0                                   |                                                                                                              |                        |                    |

TD: 6.0' BGS  
10-16-02  
1500

Background:  
Nat: 5,700  
PTD: 0.0  
Back-filled boring w/ 3.0 bags of bentonite chips. Capped boring w/ soil.

| <div style="display: inline-block; width: 300px;"> <b>TRW DRILLING LOG</b> </div> <div style="display: inline-block; width: 200px;"> <b>ST. LOUIS</b> </div> <div style="display: inline-block; width: 100px; text-align: right;"> <b>SLD 72154</b> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                               |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------|--|
| <b>COMPANY NAME</b><br>Shaw E + I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | <b>DRILLING SUBCONTRACTOR</b><br>MES, Inc.                                                    |  |
| <b>1. PROJECT</b><br>FUS RAP / SLDs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | <b>4. LOCATION</b><br>PSC Metals Vicinity Property<br>City of Venice, IL. VP PSC (North road) |  |
| <b>5. NAME OF DRILLER</b><br>Chris Anthony                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | <b>6. MANUFACTURER'S DESIGNATION OF DRILL</b><br>Diedrich D-120                               |  |
| <b>7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT</b><br>Diedrich D-120<br>using 4 1/4" HSA and<br>3" x 2' split spoon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | <b>8. HOLE LOCATION</b><br>N/A                                                                |  |
| <b>9. SURFACE ELEVATION</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | <b>10. DATE STARTED</b><br>10-16-02                                                           |  |
| <b>11. DATE COMPLETED</b><br>10-16-02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | <b>12. OVERBURDEN THICKNESS</b><br>N/A                                                        |  |
| <b>13. DEPTH DRILLED INTO ROCK</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | <b>14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED</b><br>N/A                    |  |
| <b>15. TOTAL DEPTH OF HOLE</b><br>6.0' BGS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | <b>16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)</b><br>N/A                                    |  |
| <b>17. GEOTECHNICAL SAMPLES</b><br><input checked="" type="checkbox"/> DISTURBED <input checked="" type="checkbox"/> UNDISTURBED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | <b>18. TOTAL NUMBER OF CORE BOXES</b><br><input checked="" type="checkbox"/>                  |  |
| <b>19. SAMPLES FOR CHEMICAL ANALYSIS</b><br><input checked="" type="checkbox"/> ROC <input checked="" type="checkbox"/> METALS <input checked="" type="checkbox"/> OTHER (SPECIFY)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | <b>20. TOTAL CORE RECOVERY</b><br><input checked="" type="checkbox"/>                         |  |
| <b>21. DEPOSITION OF HOLE</b><br><input checked="" type="checkbox"/> SACK FILLED <input checked="" type="checkbox"/> MONITORING WELL <input checked="" type="checkbox"/> OTHER (SPECIFY)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | <b>22. SIGNATURE OF INSPECTOR</b><br>Phillip A. Platten                                       |  |
| <b>LOCATION SKETCH/COMMENTS</b><br><div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p>North</p> <div style="border: 1px solid black; width: 250px; height: 100px; margin: 10px 0;">           Building         </div> <div style="text-align: center; margin: 10px 0;">           • SLD 72153         </div> <div style="text-align: center; margin: 10px 0;">           • SLD 72160         </div> <div style="text-align: center; margin: 10px 0;">           • SLD 72154         </div> <div style="border: 1px solid black; width: 350px; height: 80px; margin: 10px 0;">           Building         </div> </div> <div style="width: 35%;"> <p>SCALE: Not to scale</p> </div> </div> |  |                                                                                               |  |
| <b>PROJECT</b><br>FUS RAP / SLDs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                                                               |  |
| <b>SLD 72154</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                                                               |  |

EM 1110-1-1000  
1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                                                         |                                  |                     | HOLE NUMBER                      |                                                                                                                             |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| PROJECT                                |                                                                                                                                                         | INSPECTOR                        |                     | SHEET                            |                                                                                                                             |
| FUSRAP/SLDS                            |                                                                                                                                                         | Philip Statler                   |                     | SLD 72154<br>2 OF 2              |                                                                                                                             |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                                                                                                | RECOVERY (%)                     | REMARKS             | DEPTH (ft)                       | REMARKS                                                                                                                     |
| 1.0                                    | Silty fine sand w/ some med. gravel, med. dense, poorly graded, M, brn., dry, some cinders, slag, trace brick frags, trace limst. cobbles, trace glass. | 5500 0.0<br>6300 0.0<br>6800 0.0 | 1.7/<br>2.0         | SLD 72154<br>10716-02<br>1100    | 15<br>21<br>24                                                                                                              |
| 2.0                                    | brick frag. in tip                                                                                                                                      | 6700 0.0                         | no recovery         | SLD 72181<br>1105                | 22                                                                                                                          |
| 3.0                                    | few limestone cobbles, cinders, slag, and brick absent, trace clay.                                                                                     | 6700 0.0<br>5800 0.0<br>6000 0.0 | 1.7/<br>2.0         |                                  | 18<br>18<br>24                                                                                                              |
| 4.0                                    |                                                                                                                                                         | 5700 0.0                         | no recovery         | SLD 72154<br>archive 106<br>1135 | 15                                                                                                                          |
| 5.0                                    | N/A                                                                                                                                                     | N/A<br>N/A<br>N/A<br>N/A         | 1.8/<br>2.0<br>P.S. |                                  | P.S.<br>P.S.<br>P.S.<br>P.S.                                                                                                |
| 6.0                                    |                                                                                                                                                         |                                  |                     |                                  | Poor recovery encountered. See SLD 72154B for information.                                                                  |
| 7.0                                    | TD = 6.0' BGS<br>10-16-02<br>1110                                                                                                                       |                                  |                     |                                  | Background:<br>N.I. 5700<br>PID = 0.0<br>Back-filled<br>boring w/ 3.0<br>bags of bentonite chips.<br>Capped boring w/ soil. |

ENG FORM 3056A-2, AUG 94



1 Nov 98

| HTRW DRILLING LOG   |                                                                                                | CONTINUATION SHEET       |          | SLD 72154 B  |                            |
|---------------------|------------------------------------------------------------------------------------------------|--------------------------|----------|--------------|----------------------------|
| PROJECT FUSRAP/SLDS |                                                                                                | INSPECTOR Philip Starler |          | SHEET 2 OF 3 |                            |
| DEPTH (ft)          | DESCRIPTION OF MATERIALS                                                                       | NO. OF SAMPLES           | RECOVERY | SLOW COUNT   | REMARKS                    |
| 1.0                 | SEE SLD 72154                                                                                  | N/A                      |          | N/A          | Augered down to            |
| 2.0                 |                                                                                                | N/A                      |          | N/A          | 4.0' BGS and drove         |
| 3.0                 |                                                                                                | N/A                      |          | N/A          | spoon. (Poor re-           |
| 4.0                 |                                                                                                | N/A                      |          | N/A          | covey in 4.0-6.0' BGS      |
| 5.0                 |                                                                                                | N/A                      |          | N/A          | interval in SLD 72154      |
| 6.0                 |                                                                                                | N/A                      |          | N/A          | which resulted in this     |
| SM                  | Silty, fine sand w/ some med. gravel, 10% s&s, poorly graded; Hs. brn, dry, few limst. cobbles | 5000                     | 1.8/2.0  | 6            | archive sam- ple from 4.5' |
| CL                  | Silty clay, med. stiff, med. plastic; Hs. brn, dry, trace limst. cobbles, trace brick frags.   | 6000                     |          | 8            | 5.0' BGS                   |
|                     |                                                                                                | 6400                     |          | 8            | archive sample from 5.3'   |
|                     |                                                                                                | 5800                     |          | 7            | 5.8' BGS.                  |
| 6.0                 | TD: 6.0' BGS                                                                                   |                          |          |              | Background                 |
| 7.0                 | 1140                                                                                           |                          |          |              | NaI: 57.00                 |
| 8.0                 | 10-16-02                                                                                       |                          |          |              | PIP: 0.0                   |
| 9.0                 |                                                                                                |                          |          |              | Boring back                |
| 10.0                |                                                                                                |                          |          |              | filled w/ 3.0 bags of      |
|                     |                                                                                                |                          |          |              | benstonite chips. Boring   |
|                     |                                                                                                |                          |          |              | capped w/ soil.            |

# TRW DRILLING LOG

ST. LOUIS

SLD 72155

COMPANY NAME  
Snow E + I

2. DRILLING SUBCONTRACTOR  
MES, Inc.

SHEETS  
1 of 2

1. PROJECT  
FUS RAP / SLDs

4. LOCATION  
City of Venice, IL VP

5. NAME OF DRILLER  
Chris Anthony

6. MANUFACTURER'S DESIGNATION OF DRILL  
Diedrich D-12C

7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT  
Diedrich D-12C  
using HSA and  
3" x 3" split spoon

8. HOLE LOCATION  
N/A

9. SURFACE ELEVATION  
N/A

PID 10-17-02 N/A LJD 172059  
to 100 / 100 Cal Date 12-12-02 Bgk = 59.00

10. DATE STARTED  
10-17-02

11. DATE COMPLETED  
10-17-02

12. OVERBURDEN THICKNESS  
N/A

15. DEPTH GROUNDWATER ENCOUNTERED  
N/A

13. DEPTH CHALLENGE TO ROCK  
N/A

16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED  
N/A

14. TOTAL DEPTH OF HOLE  
6.0' BGS

17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)  
N/A

18. GEOTECHNICAL SAMPLES  
DISTURBED ☒ UNDISTURBED ☒

19. SAMPLES FOR CHEMICAL ANALYSIS  
TOX ☒ METALS ☒ OTHER (SPECIFY) RAD ☒ OTHER (SPECIFY) ☒ OTHER (SPECIFY) ☒

20. TOTAL CORE RECOVERY ☒

22. DEPOSITION OF LOGS  
SAMPLERED ☒ MONITORING WELL ☒ OTHER (SPECIFY) ☒

23. SIGNATURE OF INSPECTOR  
William M. Hatten

LOCATION SKETCH/COMMENTS  
North

SCALE: Not to scale

Building

SLD 72153

SLD 72154

Building

SLD 72155

FUS RAP / SLDs

SLD 72155

| HTRW DRILLING LOG (CONTINUATION SHEET)                                                                                          |                                                                                                                                                                   |                                  |                                 | HOLE NUMBER<br>SLD 72155         |         |  |
|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------|----------------------------------|---------|--|
| PROJECT<br>FUSRAP/SLDS                                                                                                          |                                                                                                                                                                   | INSPECTOR<br>Philip Statter      |                                 | SHEET<br>2 OF 2                  |         |  |
| DEPTH<br>IN                                                                                                                     | DESCRIPTION OF MATERIALS<br>LOG                                                                                                                                   | WATER CONTENT<br>% P.D.          | RECOVERY<br>%                   | SLT<br>TAPES<br>NO.              | REMARKS |  |
| SM                                                                                                                              | silty fine sand w/ some med. to coarse gravel, loose to med. dense, poorly graded, dk. brn. to dk. brn.; dry, some cinders, some slag, trace wood, few brn. clay. | 5500<br>0.0                      | 1.7/<br>2.0                     | SLD<br>72155<br>10-17-02<br>1315 | 14      |  |
|                                                                                                                                 |                                                                                                                                                                   | 5800<br>0.0                      |                                 | 7                                |         |  |
|                                                                                                                                 |                                                                                                                                                                   | 5900<br>0.0                      |                                 | 11                               |         |  |
|                                                                                                                                 |                                                                                                                                                                   | 5700<br>0.0                      |                                 | 8                                |         |  |
| CL                                                                                                                              | silty clay, stiff, med. plast., (4. brn.) dry.<br><br>trace coarse limestone frags.<br><br><br><br>trace brick frags.<br><br>trace brick frags.                   | 5600<br>0.0                      | 1.6/<br>2.0                     | SLD<br>72182<br>1315             | 10      |  |
|                                                                                                                                 |                                                                                                                                                                   | 5900<br>0.0                      |                                 | 8                                |         |  |
|                                                                                                                                 |                                                                                                                                                                   | 5600<br>0.0                      | no recovery                     |                                  | 14      |  |
|                                                                                                                                 |                                                                                                                                                                   | N/A<br>N/A                       |                                 | 9                                |         |  |
|                                                                                                                                 |                                                                                                                                                                   | 5500<br>0.0                      | 1.7/<br>2.0                     |                                  | 6       |  |
|                                                                                                                                 |                                                                                                                                                                   | 5700<br>0.0                      |                                 | 9                                |         |  |
|                                                                                                                                 |                                                                                                                                                                   | 4600<br>0.0                      | SLD<br>72155<br>archive<br>1315 | 7                                |         |  |
|                                                                                                                                 |                                                                                                                                                                   | N/A<br>N/A                       | no recovery                     | 5                                |         |  |
|                                                                                                                                 |                                                                                                                                                                   | archive sample from 2.5-3.2 BGS. |                                 |                                  |         |  |
|                                                                                                                                 |                                                                                                                                                                   | archive sample from 5.2-5.7 BGS. |                                 |                                  |         |  |
| Backgrounds<br>Nat: 5,900<br>P.D.s 0.0<br>Backfilled<br>boring w/<br>30 bags of<br>bentonite chips<br>Capped boring<br>w/ soil. |                                                                                                                                                                   |                                  |                                 |                                  |         |  |
| TD: 6.0' BGS<br>10-17-02<br>1315                                                                                                |                                                                                                                                                                   |                                  |                                 |                                  |         |  |



SLD 72156

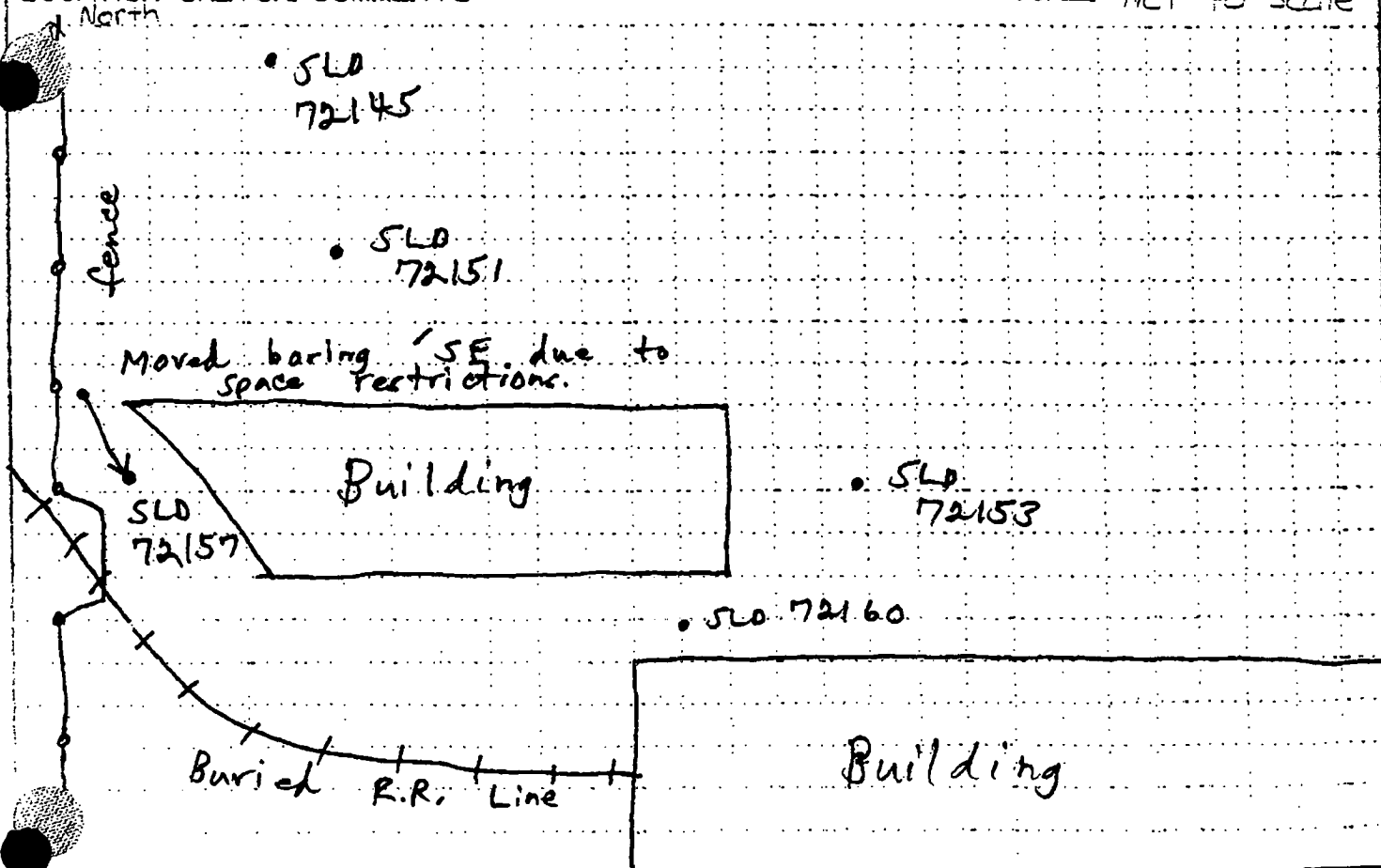
EM 1110-1-1000  
1 Nov 98

| HTRW DRILLING LOG |                                                                                                                                                                                | CONTINUATION SHEET |          | HOLE NUMBER                      |           |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|----------------------------------|-----------|
| PROJECT           |                                                                                                                                                                                | INSPECTOR          |          | SHEET                            |           |
| FUSRAP/SLOS       |                                                                                                                                                                                | Phillip Statler    |          | SLD 72156                        |           |
| SHEET 2 OF 2      |                                                                                                                                                                                |                    |          |                                  |           |
| DEPTH             | DESCRIPTION OF MATERIALS                                                                                                                                                       | NO. OF SAMPLES     | RECOVERY | SLD                              | BLW COUNT |
| 0.0               | silty fine sand w/<br>some med. gravel,<br>mod. dense to dense,<br>poorly graded, dk. brn.<br>to blk. dry, trace<br>limestone cobbles, few<br>cinders and slag, trace<br>coal. | 6100               | 0.0      | SLD<br>72156<br>19-21-02<br>1400 | 14        |
| 1.0               |                                                                                                                                                                                | 6300               | 0.0      |                                  | 20        |
| 2.0               |                                                                                                                                                                                | 6400               | 0.0      |                                  | 26        |
| 3.0               |                                                                                                                                                                                | 6200               | 0.0      |                                  | 42        |
| 4.0               | Limestone cobble                                                                                                                                                               | 5700               | 0.0      | SLD<br>72153<br>19-05            | 15        |
| 5.0               |                                                                                                                                                                                | 6000               | 0.0      |                                  | 11        |
| 6.0               |                                                                                                                                                                                | 5900               | 0.0      | SLD<br>72197<br>1415             | 13        |
| 7.0               |                                                                                                                                                                                | N/A                | N/A      | No recovery                      | 7         |
| 8.0               | silty clay med. stiff,<br>mod. p/ct., dk. brn,<br>dry.                                                                                                                         | 6200               | 0.0      |                                  | 5         |
| 9.0               |                                                                                                                                                                                | 6300               | 0.0      |                                  | 5         |
| 10.0              |                                                                                                                                                                                | 6600               | 0.0      | SLD<br>72206<br>1425             | 5         |
| 11.0              |                                                                                                                                                                                | 5800               | 0.0      |                                  | 5         |
| 12.0              | some cinders, slag, coal,<br>trace brick frags.<br>clay turning M. gray.                                                                                                       |                    |          |                                  |           |
| 13.0              |                                                                                                                                                                                |                    |          |                                  |           |
| 14.0              |                                                                                                                                                                                |                    |          |                                  |           |
| 15.0              |                                                                                                                                                                                |                    |          |                                  |           |
| 16.0              | TD: 6.0' BG5<br>10-21-02<br>1420                                                                                                                                               |                    |          |                                  |           |
| 17.0              |                                                                                                                                                                                |                    |          |                                  |           |
| 18.0              |                                                                                                                                                                                |                    |          |                                  |           |
| 19.0              |                                                                                                                                                                                |                    |          |                                  |           |
| 20.0              | Background:<br>Nat: 6200<br>PID: 0.0<br>Backfilled<br>boring w/<br>3.0 bags of<br>bentonite<br>chips.                                                                          |                    |          |                                  |           |
| 21.0              |                                                                                                                                                                                |                    |          |                                  |           |
| 22.0              |                                                                                                                                                                                |                    |          |                                  |           |
| 23.0              |                                                                                                                                                                                |                    |          |                                  |           |
| 24.0              |                                                                                                                                                                                |                    |          |                                  |           |
| 25.0              |                                                                                                                                                                                |                    |          |                                  |           |
| 26.0              |                                                                                                                                                                                |                    |          |                                  |           |
| 27.0              |                                                                                                                                                                                |                    |          |                                  |           |
| 28.0              |                                                                                                                                                                                |                    |          |                                  |           |
| 29.0              |                                                                                                                                                                                |                    |          |                                  |           |
| 30.0              |                                                                                                                                                                                |                    |          |                                  |           |

| STW DRILLING LOG                                                                                                        |  | ST. LOUIS                                                           |  | SLO 72157 |  |
|-------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------|--|-----------|--|
| COMPANY NAME<br>Show E + I                                                                                              |  | DRILLING CONTRACTOR<br>MES, INC.                                    |  | SHEET # 2 |  |
| 1. PROJECT<br>FUS RAD - ELCS                                                                                            |  | 4. LOCATION<br>PSC Metals Vicinity Property<br>AS (North Tr.)       |  |           |  |
| 5. NAME OF DRILLER<br>Chris Anthony                                                                                     |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120            |  |           |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Direction D-120<br>Using 9/16" ASA and<br>3" x 3" Split - soon |  | 8. HOLE LOCATION<br>N/A                                             |  |           |  |
| 8. DATE STARTED<br>10-21-02                                                                                             |  | 11. DATE COMPLETED<br>10-21-02                                      |  |           |  |
| 9. OVERBURDEN THICKNESS<br>N/A                                                                                          |  | 12. DEPTH GROUNDWATER ENCOUNTERED<br>N/A                            |  |           |  |
| 10. DEPTH DRILLED INTO ROCK<br>N/A                                                                                      |  | 13. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A |  |           |  |
| 14. TOTAL DEPTH OF HOLE<br>6.0' BGS                                                                                     |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                 |  |           |  |
| 18. GEOTECHNICAL SAMPLES<br>DISTURBED<br>UNDISTURBED                                                                    |  | 19. TOTAL NUMBER OF CORE BOXES                                      |  |           |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS<br>TOC<br>METALS<br>OTHER SPECIFY                                                     |  | 21. TOTAL CORE RECOVERY                                             |  |           |  |
| 22. DEPOSITION OF HOLE<br>SACFILLED<br>MONITORING WELL<br>OTHER SPECIFY                                                 |  | 23. SIGNATURE OF INSPECTOR<br>Billie M. Stoltz                      |  |           |  |

## LOCATION SKETCH/COMMENTS

SCALE: Nct to scale



FUS RAD - ELCS

SLO 72157

1 Nov 98

| HTRW DRILLING LOG    |                                                                                                         | CONTINUATION SHEET        |             | SLO 72157    |                                                                                                                           |
|----------------------|---------------------------------------------------------------------------------------------------------|---------------------------|-------------|--------------|---------------------------------------------------------------------------------------------------------------------------|
| PROJECT: FUSRAP/SLOS |                                                                                                         | INSPECTOR: Philip Statler |             | SHEET 2 OF 2 |                                                                                                                           |
| DEPTH (ft)           | DESCRIPTION OF MATERIALS                                                                                | INCHES                    | RECOVERY    | SLW COUNT    | REMARKS                                                                                                                   |
| SM                   | Silty fine sand w/ few med. gravel, loose, poorly graded, dk. brn. to blk., dry, some cinders and slag. | 6900<br>0.0               | 2.0/2.0     | 6            |                                                                                                                           |
| 1.0                  |                                                                                                         | 6500<br>0.0               |             | 3            |                                                                                                                           |
|                      | Silty clay, soft, mod. plast., lt. brn., dry, trace ash                                                 | 7100<br>0.0               | 2.0/2.0     | 3            |                                                                                                                           |
| 2.0                  |                                                                                                         | 6100<br>0.0               |             | 2            |                                                                                                                           |
|                      | few limestone cobbles                                                                                   | 6100<br>0.0               | 1.8/2.0     | 6            |                                                                                                                           |
| 3.0                  |                                                                                                         | 5900<br>0.0               |             | 5            |                                                                                                                           |
|                      | wood traces (weathered)                                                                                 | 6200<br>0.0               |             | 4            |                                                                                                                           |
| 4.0                  |                                                                                                         | 6600<br>0.0               | no recovery | 5            | archive sample from 12.3' P2 3.3-3.8' BGS.                                                                                |
|                      | clay turning lt. gray                                                                                   | 6900<br>0.0               | 2.0/2.0     | 3            |                                                                                                                           |
| 5.0                  |                                                                                                         | 6200<br>0.0               |             | 4            |                                                                                                                           |
|                      |                                                                                                         | 6500<br>0.0               |             | 6            | archive sample from 5.0-5.5' BGS                                                                                          |
| 6.0                  | pieces of weathered wood.                                                                               | 6100<br>0.0               |             | 8            |                                                                                                                           |
|                      | TD: 6.0' BGS<br>1530<br>10-21-02                                                                        |                           |             |              | Background:<br>Nat: 6200<br>PID: 0.0<br>Back filled<br>boring w/<br>3.0 bags<br>of bentonite<br>chips. Capped<br>w/ soil. |

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                    |  |                                        |                                                                     | DISTRICT<br>St. Louis                     | HOLE NUMBER<br>SLD 72159 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------|---------------------------------------------------------------------|-------------------------------------------|--------------------------|
| 1. COMPANY NAME<br>Shaw E & I                                                                                                                                                                                                                                                                                                                        |  | 2. DRILLING SUBCONTRACTOR<br>MES, Inc. |                                                                     | SHEET 1 OF 2                              |                          |
| 3. PROJECT<br>FUSRAP/SLDS                                                                                                                                                                                                                                                                                                                            |  |                                        | 4. LOCATION<br>PSC Metals North Tract V.P.                          |                                           |                          |
| 5. NAME OF DRILLER<br>Chris Anthony                                                                                                                                                                                                                                                                                                                  |  |                                        | 6. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120            |                                           |                          |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>Using 4" HSA and<br>3" x 2" split spoon.                                                                                                                                                                                                                                  |  |                                        | 8. HOLE LOCATION<br>See location sketch                             |                                           |                          |
| 9. SURFACE ELEVATION<br>N/A                                                                                                                                                                                                                                                                                                                          |  |                                        | 10. DATE STARTED<br>2-11-03                                         |                                           |                          |
| 11. DATE COMPLETED<br>2-11-03                                                                                                                                                                                                                                                                                                                        |  |                                        | 12. OVERBURDEN THICKNESS<br>N/A                                     |                                           |                          |
| 13. DEPTH DRILLED INTO ROCK<br>N/A                                                                                                                                                                                                                                                                                                                   |  |                                        | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A |                                           |                          |
| 15. TOTAL DEPTH OF HOLE<br>6.0 FT BGS                                                                                                                                                                                                                                                                                                                |  |                                        | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                 |                                           |                          |
| 18. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                             |  | 19. TOTAL NUMBER OF CORE BOXES         |                                                                     | 20. SAMPLES FOR CHEMICAL ANALYSIS         |                          |
| DISTURBED<br>0                                                                                                                                                                                                                                                                                                                                       |  | UNDISTURBED<br>0                       |                                                                     | VOC<br>0                                  |                          |
| METALS<br>0                                                                                                                                                                                                                                                                                                                                          |  | OTHER (SPECIFY)<br>RAD                 |                                                                     | OTHER (SPECIFY)<br>0                      |                          |
| OTHER (SPECIFY)<br>0                                                                                                                                                                                                                                                                                                                                 |  | OTHER (SPECIFY)<br>0                   |                                                                     | 21. TOTAL CORE RECOVERY<br>0 %            |                          |
| 22. DISPOSITION OF HOLE<br>0                                                                                                                                                                                                                                                                                                                         |  | BACKFILL<br>Yes                        |                                                                     | MONITORING WELL<br>N/A                    |                          |
| OTHER (SPECIFY)<br>N/A                                                                                                                                                                                                                                                                                                                               |  | OTHER (SPECIFY)<br>N/A                 |                                                                     | 23. SIGNATURE OF INSPECTOR<br>Susan Adams |                          |
| <div style="display: flex; justify-content: space-between;"> <div> <p>LOCATION SKETCH/COMMENTS</p> </div> <div> <p>Witnessed by: Susan Adams</p> <p>SCALE: Not to Scale</p> <p>Terms used to describe %</p> <p>Trace - &lt; 5 %</p> <p>Few - 5 - 10 %</p> <p>Little - 15 - 25 %</p> <p>Some - 20 - 35 %</p> <p>Mostly - 50 - 100 %</p> </div> </div> |  |                                        |                                                                     |                                           |                          |
| PROJECT<br>FUSRAP/SLDS                                                                                                                                                                                                                                                                                                                               |  |                                        |                                                                     | HOLE NO.<br>SLD 72159                     |                          |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                            |                           |         |              |         | SLD 72159      |         |
|----------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------|---------|--------------|---------|----------------|---------|
| PROJECT FUSRAP/SLDS                    |                                                                                                            | INSPECTOR Phillip Statler |         | SHEET 2 of 2 |         | SHEETS         |         |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                                                   | RECOVERY                  | REMARKS | DEPTH (ft)   | REMARKS | DEPTH (ft)     | REMARKS |
| 0.0                                    | Silty fine sand w/ fine med. gravel, loose, poorly graded, lt. brn. to blk, dry, some clinders, some slag. | 69.00                     | 1.8/2.0 | 80-85'       | 8       | SLD 72159 1117 |         |
| 1.0                                    |                                                                                                            | 79.00                     | 0.0     | 85-90'       | 8       |                |         |
| 2.0                                    |                                                                                                            | 66.00                     | 0.0     | 90-95'       | 6       | SLD 72159 1122 |         |
| 3.0                                    |                                                                                                            | 73.00                     | 0.0     | 95-100'      | 5       |                |         |
| 4.0                                    |                                                                                                            | 71.00                     | 0.0     | 100-105'     | 4       | AS.            |         |
| 5.0                                    | Silty clay, soft to med. stiff, med. plant, dk. brn. to lt. gry, dry                                       | 69.00                     | 1.7/2.0 | 105-110'     | 3       |                |         |
| 6.0                                    |                                                                                                            | 68.00                     | 0.0     | 110-115'     | 5       | SLD 72159 1140 |         |
| 7.0                                    |                                                                                                            | 66.00                     | 0.0     | 115-120'     | 6       | (1142)         |         |
| 8.0                                    |                                                                                                            | 70.00                     | 0.0     | 120-125'     | 2       |                |         |
| 9.0                                    |                                                                                                            | 67.00                     | 0.0     | 125-130'     | 4       |                |         |
| 10.0                                   |                                                                                                            | 68.00                     | 0.0     | 130-135'     | 6       |                |         |
| 11.0                                   |                                                                                                            | 70.00                     | 0.0     | 135-140'     | 9       | SLD 72159 1112 | (1112)  |
| 12.0                                   | TD: 6.0' BGS                                                                                               |                           |         |              |         |                |         |
| 13.0                                   | 2-11-03                                                                                                    |                           |         |              |         |                |         |
| 14.0                                   | 1133                                                                                                       |                           |         |              |         |                |         |
| 15.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 16.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 17.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 18.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 19.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 20.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 21.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 22.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 23.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 24.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 25.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 26.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 27.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 28.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 29.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 30.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 31.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 32.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 33.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 34.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 35.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 36.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 37.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 38.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 39.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 40.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 41.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 42.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 43.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 44.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 45.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 46.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 47.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 48.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 49.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 50.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 51.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 52.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 53.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 54.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 55.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 56.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 57.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 58.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 59.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 60.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 61.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 62.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 63.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 64.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 65.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 66.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 67.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 68.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 69.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 70.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 71.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 72.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 73.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 74.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 75.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 76.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 77.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 78.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 79.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 80.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 81.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 82.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 83.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 84.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 85.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 86.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 87.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 88.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 89.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 90.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 91.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 92.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 93.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 94.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 95.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 96.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 97.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 98.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 99.0                                   |                                                                                                            |                           |         |              |         |                |         |
| 100.0                                  |                                                                                                            |                           |         |              |         |                |         |

Back ground:  
NAI: 6833  
PID: 0.0  
Boring back-filled w/ 3.0 bags of baghouse chips.  
\* Sampler will be counted using gas proportional meter (see attached sheet)

RADIOLOGICAL SURVEY FORM

Sample ID: SLD 72159 C2 Date Sample was collected: 2-17-03 Date Sample was analyzed: 2-20-03  
 Instrument #1 Background 6833 Instrument #2 Background 4951 cpm  
 Count rate of Empty Pan: Beta 105 cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |                  |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|------------------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta         |
| 0-6                      | 6900                                                      | 67                                | 4148                                                  | -803                          | 116                                | 11               |
| 6-12                     | 7900                                                      | 1067                              | 5242                                                  | 291                           | 151                                | 46               |
| 12-18                    | 6600                                                      | -233                              | 4546                                                  | -405                          | 150                                | 45               |
| 18-24                    | 7300                                                      | 467                               | 4978                                                  | 27                            | 125                                | 20               |
| 24-30                    | 7100                                                      | 267                               | 5124                                                  | 173                           | 153                                | 48               |
| 30-36                    | 6900                                                      | 67                                | 4787                                                  | -164                          | 144                                | 39               |
| 36-42                    | 6800                                                      | -33                               | 5010                                                  | 59                            | 158                                | 45 <sup>53</sup> |
| 42-48                    | 6600                                                      | -233                              | 5089                                                  | 138                           | 150                                | 45               |
| 48-54                    | 7000                                                      | 167                               | 5014                                                  | 63                            | 168                                | 63               |
| 54-60                    | 6700                                                      | -133                              | 5047                                                  | 96                            | 168                                | 63               |
| 60-66                    | 6800                                                      | -33                               | 5051                                                  | 100                           | 161                                | 56               |
| 66-72                    | 7000                                                      | 167                               | 5156                                                  | 205                           | 167                                | 62               |

SLD 72159

SLD 72195

SLD 72159  
archive

SLD 72159  
archive



| TRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                            |  | DISTRICT<br>St. Louis                                                                                                                                   |  | HOLE NUMBER<br>SLD 72160                            |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------|--|
| COMPANY NAME<br>Shaw E + I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                            |  | 2. DRILLING SUBCONTRACTOR<br>MES, Inc.                                                                                                                  |  | SHEET<br>1 of 2                                     |  |
| 1. PROJECT<br>FUS RAP / SLDs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                            |  | 4. LOCATION<br>RSC Metals North tract V.P.<br><del>City of Venice, IL VP-P</del>                                                                        |  |                                                     |  |
| 3. NAME OF DRILLER<br>Chris Anthony                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120                                                                                                |  |                                                     |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using 4 1/4" ASA and<br>3" x 2' split spoon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                            |  | 8. HOLE LOCATION<br>N/A                                                                                                                                 |  |                                                     |  |
| 10. DATE STARTED<br>10-16-02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                            |  | 11. DATE COMPLETED<br>10-16-02                                                                                                                          |  |                                                     |  |
| 12. OVERBURDEN THICKNESS<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                                            |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br>N/A                                                                                                                |  |                                                     |  |
| 13. DEPTH DRILLED INTO ROCK<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                                            |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A                                                                                     |  |                                                     |  |
| 14. TOTAL DEPTH OF HOLE<br>6.0' BGS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                            |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                                                                                                     |  |                                                     |  |
| 18. GEOTECHNICAL SAMPLES<br><input checked="" type="checkbox"/> DISTURBED<br><input type="checkbox"/> UNDISTURBED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | 19. TOTAL NUMBER OF CORE BOXES<br><input type="checkbox"/> |  | 20. SAMPLES FOR CHEMICAL ANALYSIS<br><input type="checkbox"/> TOC<br><input type="checkbox"/> METALS<br><input type="checkbox"/> OTHER (SPECIFY)<br>RAD |  | 21. TOTAL CORE RECOVERY<br><input type="checkbox"/> |  |
| 22. DEPOSITION OF HOLE<br><input checked="" type="checkbox"/> SACFILLED<br><input type="checkbox"/> MONITORING WELL<br><input type="checkbox"/> OTHER (SPECIFY)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | 23. SIGNATURE OF INSPECTOR<br>Phillip N. Staller           |  |                                                                                                                                                         |  |                                                     |  |
| <div style="display: flex; justify-content: space-between;"> <div> <p>LOCATION SKETCH/COMMENTS</p> <p>North</p> <div style="border: 1px solid black; width: 200px; height: 100px; margin-top: 20px; position: relative;"> <p style="position: absolute; top: 10px; left: 10px;">building</p> <p style="position: absolute; top: 60px; left: 10px;">• SLD 72159</p> </div> <div style="position: absolute; top: 10px; left: 40px;">• SLD 72153</div> <div style="position: absolute; top: 40px; left: 30px;"> <p>SLD 72160</p> <p>→ (moved boring 10' E due to overhead power lines)</p> </div> <div style="border: 1px solid black; width: 200px; height: 80px; margin-top: 20px; position: relative;"> <p style="position: absolute; top: 10px; left: 10px;">SLD 72161</p> <p style="position: absolute; top: 40px; left: 10px;">building</p> </div> </div> </div> <div style="text-align: right; padding-right: 50px;"> <p>SCALE: Not to scale</p> </div> |  |                                                            |  |                                                                                                                                                         |  |                                                     |  |
| PROJECT<br>FUS RAP / SLDs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                            |  | HOLE NO.<br>SLD 72160                                                                                                                                   |  |                                                     |  |

1 Nov 88

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                                                     | PROJECT FUSRAP/SLDS |             | INSPECTION Phillip Staller |                         | HOLE NUMBER SLD 72160   |                                                                                                                           |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------|----------------------------|-------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------|
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                                                                                            | INCHES TO BOTTOM    | RECOVERY    | SLD 72160 10-16-02 1315    | SLD 72160 10-16-02 1315 | SLD 72160 10-16-02 1315 | REMARKS                                                                                                                   |
| 1.0                                    | SM Silty fine sand w/ some med. gravel, med. dense to dense, poorly graded, H. brn. to dk brn, dry, some cinders, some slag, trace limast. cobbles. | 5400 0.0            | 1.7         | SLD 72160 10-16-02 1315    | 18                      |                         |                                                                                                                           |
|                                        |                                                                                                                                                     | 6000 0.0            | 1.9         |                            | 30                      |                         |                                                                                                                           |
|                                        |                                                                                                                                                     | 5700 0.0            | 2.0         |                            | 43                      |                         |                                                                                                                           |
|                                        | limastone rock                                                                                                                                      | 5800 0.0            | no recovery | SLD 72160 10-16-02 1315    | 23                      |                         |                                                                                                                           |
| 2.0                                    | SEE SLD 72160 B                                                                                                                                     | N/A                 |             |                            | 13                      |                         | Poor recovery in 2.0-4.0' BG interval. Moral rig, augered down to 2.0' BGs and drove spoon, (See 72160 B for information) |
| 3.0                                    |                                                                                                                                                     | N/A                 |             |                            | 10                      |                         |                                                                                                                           |
| 4.0                                    |                                                                                                                                                     | N/A                 |             |                            | 10                      |                         |                                                                                                                           |
| 5.0                                    | CL Silty clay med. dense, med. platy, dk. brn. to blk, dry, trace wood frags.                                                                       | 6300 0.0            | 1.5         |                            | 9                       |                         |                                                                                                                           |
|                                        |                                                                                                                                                     | 6100 0.0            | 2.0         |                            | 8                       |                         |                                                                                                                           |
|                                        | clay turning H. gray                                                                                                                                | 6200 0.0            |             | SLD 72160 10-16-02 1315    | 8                       |                         |                                                                                                                           |
| 6.0                                    |                                                                                                                                                     | N/A                 | no recovery |                            | 7                       |                         |                                                                                                                           |
| 7.0                                    | TD: 6.0' BGs 10-16-02 1315                                                                                                                          |                     |             |                            |                         |                         | Background: NAT: 5700 PID: 0.0                                                                                            |
| 8.0                                    |                                                                                                                                                     |                     |             |                            |                         |                         | Backfilled boring w/ 3 bags of bentonite chips. Boring capped w/ soil.                                                    |
| 9.0                                    |                                                                                                                                                     |                     |             |                            |                         |                         |                                                                                                                           |
| 10.0                                   |                                                                                                                                                     |                     |             |                            |                         |                         |                                                                                                                           |

| INTRW DRILLING LOG                                                                                                                                                          |  | DISTRICT                                                                |  | SHEET NUMBER                                                                                                                                                                     |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| COMPANY NAME<br>Shaw E + I                                                                                                                                                  |  | St. Louis                                                               |  | SLD 72160B                                                                                                                                                                       |  |
| 1. PROJECT<br>FUS RAP / SLDs                                                                                                                                                |  | 2. DRILLING SUBCONTRACTOR<br>MES, Inc.                                  |  | SHEET<br>1 of 2                                                                                                                                                                  |  |
| 3. NAME OF DRILLER<br>Chris Anthony                                                                                                                                         |  | 4. LOCATION<br>Pse Metals North Tract U.P.<br>City of Venice, IL VP P3. |  | 5. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120                                                                                                                         |  |
| 6. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using HSA and<br>3" x 2' split spoon                                                             |  | 7. HOLE LOCATION<br>N/A                                                 |  | 8. SURFACE ELEVATION<br>N/A                                                                                                                                                      |  |
| 9. PID 10-16-02 NAT LUD 1720.59<br>to 100 / 100 Sol Date 12-17-02 BgK = 5,700                                                                                               |  | 10. DATE STARTED<br>10-16-02                                            |  | 11. DATE COMPLETED<br>10-16-02                                                                                                                                                   |  |
| 12. OVERBURDEN THICKNESS<br>N/A                                                                                                                                             |  | 13. DEPTH DRILLED INTO ROCK<br>N/A                                      |  | 14. TOTAL DEPTH OF HOLE<br>4.0' BGS                                                                                                                                              |  |
| 15. GEOTECHNICAL SAMPLES<br>DISTURBED <input checked="" type="checkbox"/> UNDISTURBED <input checked="" type="checkbox"/>                                                   |  | 16. TOTAL NUMBER OF CORE BOXES<br><input checked="" type="checkbox"/>   |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                                                                                                                              |  |
| 18. SAMPLES FOR CHEMICAL ANALYSIS<br>ROC <input checked="" type="checkbox"/> METALS <input checked="" type="checkbox"/> OTHER (SPECIFY) <input checked="" type="checkbox"/> |  | 19. TOTAL CORRE RECOVERY<br><input checked="" type="checkbox"/>         |  | 20. DISPOSITION OF HOLE<br>SACFILLED <input checked="" type="checkbox"/> MONITORING WELL <input checked="" type="checkbox"/> OTHER (SPECIFY) <input checked="" type="checkbox"/> |  |
| 21. SIGNATURE OF INSPECTOR<br>[Signature]                                                                                                                                   |  | 22. SCALE: Not to scale                                                 |  | 23. [Signature]                                                                                                                                                                  |  |

# LOCATION SKETCH/COMMENTS

North

Building

• SLD 72159

• SLD 72153

SLD 72160B

SLD 72160B  
Moved boring over 2.5' East from  
SLD 72160 due to poor recovery

Building

• SLD 72161

|         |                |           |             |
|---------|----------------|-----------|-------------|
| PROJECT | FUS RAP / SLDs | SHEET NO. | SLD 72160 B |
|---------|----------------|-----------|-------------|

1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                   |                                     |             |                                     |          | HOLE NUMBER<br>SLD 72160 B          |                                                                                                                          |
|----------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------|-------------|-------------------------------------|----------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| PROJECT<br>FUSRAP/SLDS                 |                                                                                   | INSPECTOR<br>Philip Statler         |             | SHEET<br>2 OF 2                     |          | SHEET 2                             |                                                                                                                          |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS                                                          | NO. CORRECTION<br>IN CORRECTION NO. | RECOVERY    | NO. CORRECTION<br>IN CORRECTION NO. | RECOVERY | NO. CORRECTION<br>IN CORRECTION NO. | REMARKS                                                                                                                  |
| 1.0                                    | SEE                                                                               | N/A                                 |             | N/A                                 |          | N/A                                 |                                                                                                                          |
| 2.0                                    | SLD                                                                               | N/A                                 |             | N/A                                 |          | N/A                                 |                                                                                                                          |
| 3.0                                    | 72160                                                                             | N/A                                 |             | N/A                                 |          | N/A                                 |                                                                                                                          |
| 4.0                                    | CL                                                                                | N/A                                 |             | N/A                                 |          | N/A                                 |                                                                                                                          |
| 5.0                                    | silty clay, med. stiff,<br>red. plast. dk. brn.,<br>dry, few cinders and<br>slag. | 5600<br>0.0                         | 1.7<br>2.0  | 5600<br>0.0                         | 8        | 5600<br>0.0                         | archive sample<br>BGS. 2-2-2.7<br>(10-16-02)                                                                             |
| 6.0                                    | trace brick frags, lime-<br>stone cobble                                          | 6000<br>0.0                         |             | 6000<br>0.0                         | 6        | 6000<br>0.0                         |                                                                                                                          |
| 7.0                                    |                                                                                   | 6800<br>0.0                         |             | 6800<br>0.0                         | 7        | 6800<br>0.0                         |                                                                                                                          |
| 8.0                                    |                                                                                   | 5800<br>0.0                         | no recovery | 5800<br>0.0                         | 7        | 5800<br>0.0                         |                                                                                                                          |
| 9.0                                    | TD: 4.0' BGS<br>10-16-02<br>1400                                                  |                                     |             |                                     |          |                                     | Backgrounds<br>Nat: 5200<br>PSD: 0.0<br>Backfilled<br>boring w/<br>20 bags of<br>best white<br>chips. Capped<br>w/ soil. |
| 10.0                                   |                                                                                   |                                     |             |                                     |          |                                     |                                                                                                                          |
| 11.0                                   |                                                                                   |                                     |             |                                     |          |                                     |                                                                                                                          |
| 12.0                                   |                                                                                   |                                     |             |                                     |          |                                     |                                                                                                                          |
| 13.0                                   |                                                                                   |                                     |             |                                     |          |                                     |                                                                                                                          |
| 14.0                                   |                                                                                   |                                     |             |                                     |          |                                     |                                                                                                                          |
| 15.0                                   |                                                                                   |                                     |             |                                     |          |                                     |                                                                                                                          |
| 16.0                                   |                                                                                   |                                     |             |                                     |          |                                     |                                                                                                                          |
| 17.0                                   |                                                                                   |                                     |             |                                     |          |                                     |                                                                                                                          |
| 18.0                                   |                                                                                   |                                     |             |                                     |          |                                     |                                                                                                                          |
| 19.0                                   |                                                                                   |                                     |             |                                     |          |                                     |                                                                                                                          |
| 20.0                                   |                                                                                   |                                     |             |                                     |          |                                     |                                                                                                                          |



1 Nov 98

## HTRW DRILLING LOG (CONTINUATION SHEET)

| PROJECT                          |                                                                                                                            | INSPECTOR                      |                            | HOLE NUMBER                       |                            | SHEET                                                                                                                      |  |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------|-----------------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------|--|
| FUSRAP/SLDS                      |                                                                                                                            | Phillip Statler                |                            | SLD 72161                         |                            | 2 of 2                                                                                                                     |  |
| DEPTH<br>(1)                     | DESCRIPTION OF MATERIALS<br>(2)                                                                                            | WELL LOGGING<br>REMARKS<br>(3) | RECOVERY<br>PERCENT<br>(4) | ANALYTICAL<br>SAMPLE NO.<br>(5)   | DEPTH<br>CORRECTION<br>(6) | REMARKS<br>(7)                                                                                                             |  |
| cover                            | asphalt cover material                                                                                                     | 5000<br>0.0                    |                            | SLD<br>72161<br>cover<br>10-29-02 | (1000)                     |                                                                                                                            |  |
| 1                                | silty clay w few med to coarse gravel, med. stiff to hard, not plastic, dk brng some cinders, some slag, trace brick frags | 5600<br>0.0                    | 1.7<br>2.0                 | SLD<br>72161<br>1035              | 5                          |                                                                                                                            |  |
|                                  |                                                                                                                            | 5100<br>0.0                    |                            |                                   | 6                          |                                                                                                                            |  |
| 2                                |                                                                                                                            | 5000<br>0.0                    |                            | SLD<br>72187<br>1040              | 52                         |                                                                                                                            |  |
|                                  |                                                                                                                            | 4800<br>0.0                    | no recovery                |                                   | 24                         |                                                                                                                            |  |
| 3                                |                                                                                                                            | 5200<br>0.0                    |                            |                                   | 4                          |                                                                                                                            |  |
|                                  | CL clay turning ft. gry, few cinders, few slag, trace brick frags, trace med. gravel.                                      | 5500<br>0.0                    | 2.0<br>2.0                 | SLD<br>72161<br>archive<br>1035   | 6                          | archive sample from 3.0-3.5 BGS                                                                                            |  |
| 4                                |                                                                                                                            | 4700<br>0.0                    |                            |                                   | 12                         |                                                                                                                            |  |
|                                  |                                                                                                                            | 4500<br>0.0                    |                            |                                   | 11                         |                                                                                                                            |  |
| 5                                |                                                                                                                            | 5500<br>0.0                    |                            |                                   | 4                          |                                                                                                                            |  |
|                                  | cinders and slag ab-sent.                                                                                                  | 5000<br>0.0                    | 1.9<br>2.0                 |                                   | 8                          |                                                                                                                            |  |
| 6                                |                                                                                                                            | 4200<br>0.0                    |                            |                                   | 9                          |                                                                                                                            |  |
|                                  |                                                                                                                            | 4200<br>0.0                    |                            | SLD<br>72161<br>archive<br>1035   | 9                          | archive sample from 5.9-6.4 BGS                                                                                            |  |
| TP: 6.0' BGS<br>1045<br>10-29-02 |                                                                                                                            |                                |                            |                                   |                            | Background:<br>NI: 4900<br>PID: 0.0<br>Backfilled<br>boring w/<br>3.0 bags of<br>bentonite<br>chips. Capped<br>w/ asphalt. |  |

FUSRAP/SLDS

-- SLD 72161

# TRW DRILLING LOG

EST. NO.

St. Louis

SOLE NUMBER

SLD 72162

COMPANY NAME

Show E + I

DRILLING SUBCONTRACTOR

MES, Inc.

SHEET

OF 2 SHEETS

1. PROJECT

FUS RAP / SLDs

4. LOCATION

RSC Metals North Tract V.P.  
City of Venice IL 70 P.S.

5. NAME OF DRILLER

Chris Anthony

6. MANUFACTURER'S DESIGNATION OF DRILL

Diedrich D-12C

7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT

Direction D-12C  
using 3/4" HSA and  
3" x 3" split spoon

8. HOLE LOCATION

N/A

9. SURFACE ELEVATION

N/A

PED 10-23-02 N/A

LVD 172040

10. DATE STARTED

10-23-02

11. DATE COMPLETED

10-23-02

Ln 100/100

Cal Date 4-1-03

BgK = 6300

12. OVERBURDEN THICKNESS

N/A

15. DEPTH GROUNDWATER ENCOUNTERED

N/A

13. DEPTH DRILLED INTO ROCK

N/A

16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETES

N/A

14. TOTAL DEPTH OF HOLE

6.5' BGS

17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)

N/A

18. GEOTECHNICAL SAMPLES

☒

19. DISTURBED

☒

20. UNDISTURBED

☒

21. TOTAL NUMBER OF CORE BOXES

☒

22. SAMPLES FOR CHEMICAL ANALYSIS

☒

23. ROCK

☒

24. METALS

☒

25. OTHER (SPECIFY)

☒

26. OTHER (SPECIFY)

☒

27. OTHER (SPECIFY)

☒

28. TOTAL CORE RECOVERY

☒

29. DEPOSITION OF HOLE

☒

30. BACKFILLED

☒

31. MONITORING WELL

☒

32. OTHER (SPECIFY)

☒

33. SIGNATURE OF INSPECTOR

Philip M. Hester

LOCATION SKETCH/COMMENTS

North

SCALE: Not to Scale

Building

SLD 72153

SLD 72160

Building

SLD 72162

SLD 72155

SLD 72163

fence

FUS RAP / SLDs

SLD 72162



1 Nov 98

## HTRW DRILLING LOG

(CONTINUATION SHEET)

PROJECT FUSRAP/SLDS

INSPECTOR Phillip Statler

HOLE NUMBER SLD 72162

SHEET 2 of 2

| DEPTH<br>(1) | DEPTH<br>(2) | DESCRIPTION OF MATERIALS<br>(3)                                                                                                   | FIELD DESCRIPTION<br>(4) | RECOVERED SAMPLE<br>OR OTHER DATA<br>(5) | ANALYTICAL<br>LABORATORY<br>(6)    | BLIND COUNT<br>(7) | REMARKS<br>(8)                                                                                                                        |
|--------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------------------|------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| COVER        |              | Cover Material<br>(asphalt)                                                                                                       | 6300<br>0.0              |                                          | SLD<br>72162<br>COU-02<br>10-23-02 | (1000)             |                                                                                                                                       |
| SM           |              | slty fine sand w/ some med. gravs,<br>fine, poorly sorted, dk. gray,<br>trace clay, trace brick frags.                            | 6300<br>0.0              |                                          | SLD<br>72162<br>1005               | 6                  |                                                                                                                                       |
|              |              | slty clay, w/ few med. gravs,<br>slty, med. plast., dk. gray,<br>dry, few cinders and slag,<br>trace bricks, trace<br>coal frags. | 7000<br>0.0              | 2.0/<br>2.0                              |                                    | 12                 |                                                                                                                                       |
|              |              |                                                                                                                                   | 6100<br>0.0              |                                          |                                    | 16                 |                                                                                                                                       |
| CL           | 1            | trace weathered wood,<br>trace "furry" material                                                                                   | 6700<br>0.0              |                                          | SLD<br>72188<br>1010               | 40                 | archive P.S.<br>sample from<br>2.0-2.5 BGS                                                                                            |
|              |              |                                                                                                                                   | 6300<br>0.0              |                                          |                                    | 14                 |                                                                                                                                       |
|              | 2            | trace cinders and slag                                                                                                            | 5900<br>0.0              | 1.9/<br>2.0                              |                                    | 13                 |                                                                                                                                       |
|              |              |                                                                                                                                   | 6400<br>0.0              |                                          |                                    | 13                 |                                                                                                                                       |
|              | 3            | few limestone cobbles<br>clay turning gray.                                                                                       | 5800<br>0.0              |                                          | SLD<br>72162<br>archive<br>1015    | 9                  | archive sam-<br>ple from 3.9-<br>4.4 BGS                                                                                              |
|              |              |                                                                                                                                   | 6200<br>0.0              | no recovery                              |                                    | 3                  |                                                                                                                                       |
|              | 4            | trace cinders and<br>slag, trace bricks.                                                                                          | 6400<br>0.0              | 1.9/<br>2.0                              | SLD<br>72162<br>archive<br>1025    | 4                  | archive sam-<br>ple from 5.0-<br>5.5 BGS                                                                                              |
|              |              |                                                                                                                                   | 5800<br>0.0              |                                          |                                    | 8                  |                                                                                                                                       |
|              | 5            | few limestone cobbles                                                                                                             | 6400<br>0.0              |                                          |                                    | 5                  |                                                                                                                                       |
|              | 6            |                                                                                                                                   |                          |                                          |                                    |                    |                                                                                                                                       |
|              |              | TP: 6.5<br>10-23-02<br>1015                                                                                                       |                          |                                          |                                    |                    | Back ground:<br>Nat: 6300<br>PIP: 40<br>Back filled<br>boring w/<br>30 bags of<br>bentonite<br>chips. Boring<br>capped w/<br>asphalt. |

FUSRAP/SLDS

SLD 72162

# TRW DRILLING LOG

TEST NO.

St. Louis

HOLE NUMBER

SLD 72163

COMPANY NAME

Shaw E + I

2. DRILLING SUBCONTRACTOR

MES, Inc.

SHEET

1 of 2

SHEETS

3. PROJECT

FUS RAP / SLDs

4. LOCATION

PSC Metals North Tract V.P.

5. NAME OF DRILLER

Chris Anthony

6. MANUFACTURER'S DESIGNATION OF DRILL

Diedrich D-120

7. SIZES AND TYPES OF DRILLING AND SURFACING EQUIPMENT

Diedrich D-120  
using 3/4" HSA and  
3" x 3" Split Spoon

8. HOLE LOCATION

N/A

9. SURFACE ELEVATION

N/A

PID 10-5A-02 NAI LUD 172040

10. DATE STARTED

10-22-02

11. DATE COMPLETED

10-22-02

12. OVERBURDEN THICKNESS

N/A

15. DEPTH GROUNDWATER ENCOUNTERED

N/A

13. DEPTH DRILLED INTO ROCK

N/A

16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED

N/A

14. TOTAL DEPTH OF HOLE

6.0' BGS

17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)

N/A

18. GEOTECHNICAL SAMPLES

DISTURBED

INDISTURBED

19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS

OC

NETALS

OTHER (SPECIFY)

OTHER (SPECIFY)

OTHER (SPECIFY)

21. TOTAL CORE RECOVERY

22. DEPOSITION OF HOLE

SACKFILLED

MONITORING WELL

OTHER (SPECIFY)

23. SIGNATURE OF INSPECTOR

Chris Anthony

LOCATION SKETCH/COMMENTS

North

SCALE: Not to scale

Building

SLD 72162

SLD 72155

SLD 72156

SLD 72163

FUS RAP / SLDs

SLD NO.

SLD 72163

1 Nov 38

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                        |                  |                  | HOLE NUMBER       |                  |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------|------------------|------------------|-------------------|------------------|
| PROJECT                                |                                                                                                                        | INSPECTOR        |                  | SHEET             |                  |
| FUSRAP/SLDS                            |                                                                                                                        | Philip Statler   |                  | SLD 72163         |                  |
| DEPTH                                  | DESCRIPTION OF MATERIALS                                                                                               | WATER SAMPLE NO. | WATER SAMPLE NO. | WATER SAMPLE NO.  | WATER SAMPLE NO. |
| SM                                     | Silty fine sand w/ few med. gravel, loose, poorly graded, dk. brn., dry, trace cinders, trace slag, trace brick frags. | 6800<br>0.0      | 2.0/2.0          | SLD 72163<br>1132 | 7                |
| 1.0                                    |                                                                                                                        | 6900<br>0.0      |                  |                   | 6                |
|                                        | Silty clay, med. stiff to stiff, med. plastic, lt. brn., dry.                                                          | 7200<br>0.0      |                  | SLD 72189<br>1130 | 9                |
| 2.0                                    |                                                                                                                        | 6700<br>0.0      |                  |                   | 7                |
|                                        | few limestone cobbles, few sand                                                                                        | 6400<br>0.0      | 1.5/2.0          |                   | 10               |
| 3.0                                    |                                                                                                                        | 6100<br>0.0      |                  |                   | 10               |
|                                        |                                                                                                                        | 6500<br>0.0      |                  | SLD 72179<br>1140 | 9                |
| 4.0                                    |                                                                                                                        | N/A<br>N/A       | no recovery      |                   | 8                |
|                                        |                                                                                                                        | 6600<br>0.0      |                  |                   | 5                |
| 5.0                                    |                                                                                                                        | 6400<br>0.0      | 1.7/2.0          |                   | 4                |
|                                        | trace cinders and fine sand, trace weathered wood.                                                                     | 6700<br>0.0      |                  | SLD 72208<br>1145 | 3                |
| 6.0                                    |                                                                                                                        | 6800<br>0.0      | no recovery      |                   | 3                |
|                                        | TD: 6.0' BGS<br>1140<br>10-22-02                                                                                       |                  |                  |                   |                  |
| 7.0                                    |                                                                                                                        |                  |                  |                   |                  |
| 8.0                                    |                                                                                                                        |                  |                  |                   |                  |
| 9.0                                    |                                                                                                                        |                  |                  |                   |                  |
| 10.0                                   |                                                                                                                        |                  |                  |                   |                  |

Background:  
NAI: 6,600  
PID: 0.0  
Boring back filled w/ 3.0 bags of bentonite chips. Capped boring w/ soil.

## TRW DRILLING LOG

JOB NO.

ST. LOUIS

HOLE NUMBER

SLD 72164

COMPANY NAME

Shaw E &amp; I

2. DRILLING SUBCONTRACTOR

MES. INC.

SHEET

SHEETS

= 2

1. PROJECT

FUS RAP / SLDs

4. LOCATION

PSC Metals North Tract U.P.  
City of Venice B.G.

5. NAME OF DRILLER

Chris Anthony

6. MANUFACTURER'S DESIGNATION OF DRILL

Diedrich D-12C

7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT

Diedrich D-12C  
using 3 1/2" HSA and  
3" x 2" Split Spoon

8. HOLE LOCATION

N/A

9. SURFACE ELEVATION

N/A

PID 10-22-02 N/A

LUD 172040

10. DATE STARTED

10-22-02

11. DATE COMPLETED

10-22-02

12. OVERBURDEN THICKNESS

N/A

15. DEPTH GROUNDWATER ENCOUNTERED

N/A

13. DEPTH DRILLED INTO ROCK

N/A

16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED

N/A

14. TOTAL DEPTH OF HOLE

6.0' BGS

17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)

N/A

18. GEOTECHNICAL SAMPLES

DISTURBED

UNDISTURBED

19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL ANALYSIS

TOC

METALS

OTHER (SPECIFY)

OTHER (SPECIFY)

OTHER (SPECIFY)

21. TOTAL CORE RECOVERY

22. DISPOSITION OF HOLE

SACRIFICED

MONITORING WELL

OTHER (SPECIFY)

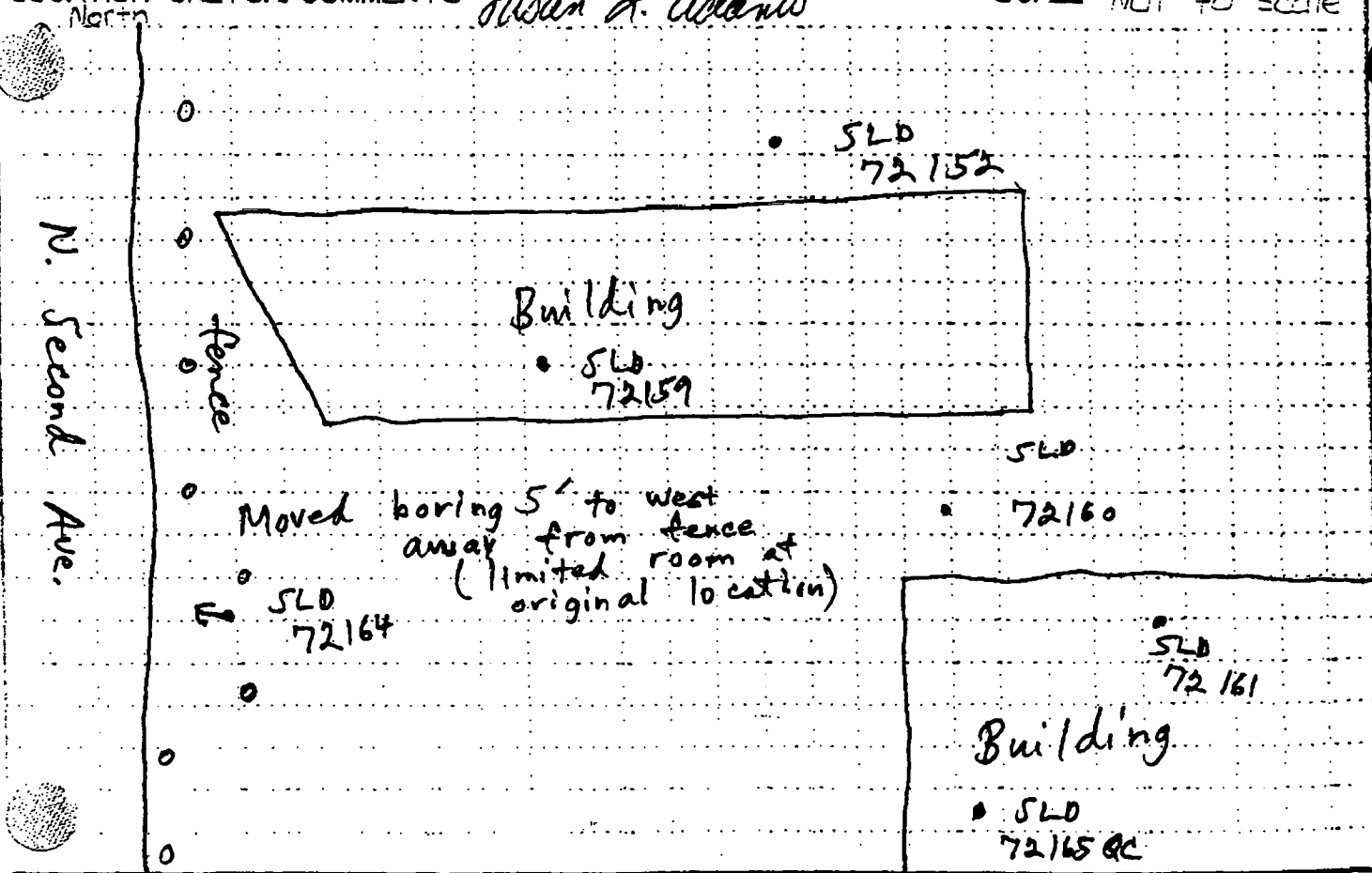
23. SIGNATURE OF INSPECTOR

Phillip M. Stoltz

LOCATION SKETCH/COMMENTS

Susan H. Adams

SCALE: Not to scale



PROJECT

FUS RAP / SLDs

SLD 72164

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                            |                              |               | HOLE NUMBER<br>SLD 72164      |                                                                                                                          |
|----------------------------------------|----------------------------------------------------------------------------|------------------------------|---------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| PROJECT<br>FUSRAP/SLDS                 |                                                                            | INSPECTOR<br>Phillip Statler |               | SHEET<br>2 OF 2               |                                                                                                                          |
| DEPTH<br>ft                            | DESCRIPTION OF MATERIALS                                                   | TIME<br>min                  | RECOVERY<br>% | SLW COUNT<br>/ft              | REMARKS                                                                                                                  |
| 0.0                                    | Silty fine sand w/ few med. gravel; loose, poorly graded, dk. brn.; dry.   | 6700<br>0.0                  | RECOVERY      | SLD 72164<br>10-22-02<br>1420 | 5                                                                                                                        |
| 1.0                                    | Silty clay; med. stiff; med. plastic; dk. brn.; dry; few cinders and slag. | 6500<br>0.0                  | 2.0/<br>2.0   |                               | 7                                                                                                                        |
|                                        |                                                                            | 6200<br>0.0                  |               |                               | 7                                                                                                                        |
|                                        |                                                                            | 6100<br>0.0                  |               | SLD 72190<br>1405             | 9                                                                                                                        |
| 2.0                                    | few limestone cobbles; cinders and slag abundant                           | 6000<br>0.0                  |               |                               | 4                                                                                                                        |
|                                        |                                                                            | 6200<br>0.0                  | 1.4/<br>2.0   |                               | 4                                                                                                                        |
| 3.0                                    | limestone rubble                                                           | 6500<br>0.0                  |               | SLD 72164<br>archive<br>1418  | 4                                                                                                                        |
|                                        |                                                                            | N/A                          | no recovery   |                               | 5                                                                                                                        |
| 4.0                                    | clay turning H. gray                                                       | 6800<br>0.0                  |               |                               | 3                                                                                                                        |
|                                        |                                                                            | 6500<br>0.0                  |               |                               | 4                                                                                                                        |
| 5.0                                    |                                                                            | 6600<br>0.0                  |               |                               | 6                                                                                                                        |
|                                        |                                                                            | 6700<br>0.0                  |               | SLD 72164<br>archive<br>1422  | 9                                                                                                                        |
| 6.0                                    |                                                                            |                              |               |                               | archive sample taken from 2.9-3.4 BGS                                                                                    |
|                                        |                                                                            |                              |               |                               | archive sample from 5.5-6.0 BGS                                                                                          |
| 7.0                                    | TD: 6.0' BGS<br>10-22-02<br>1420                                           |                              |               |                               | Background:<br>NFI: 6,600<br>PID: 0.0<br>Backfilled<br>boring w/<br>3.0 bags of<br>bentonite<br>chips. Capped<br>w/soil. |
| 8.0                                    |                                                                            |                              |               |                               |                                                                                                                          |
| 9.0                                    |                                                                            |                              |               |                               |                                                                                                                          |
| 10.0                                   |                                                                            |                              |               |                               |                                                                                                                          |

FUSRAP/SLDS

SLD 72164

# HTRW DRILLING LOG

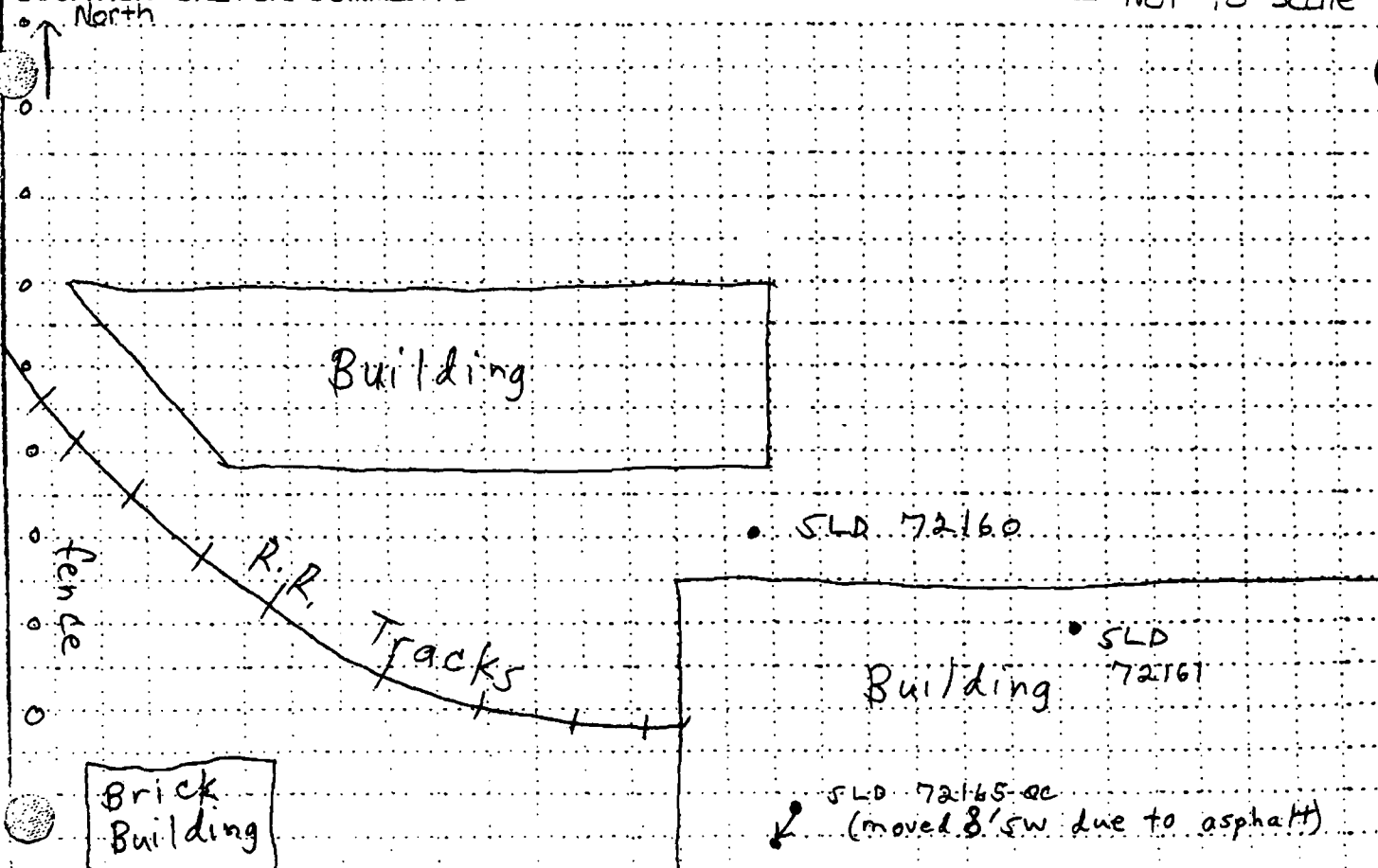
ST. LOUIS

SLD 72165 QCLa

|                                                                                                                                   |  |                                                                         |  |                                  |  |
|-----------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------|--|----------------------------------|--|
| 1. COMPANY NAME<br>Shaw E + I                                                                                                     |  | 2. DRILLING SUBCONTRACTOR<br>MES, Inc.                                  |  | 3. HOLE NUMBER<br>SLD 72165 QCLa |  |
| 3. PROJECT<br>FUS RAP / SLDs                                                                                                      |  | 4. LOCATION<br>PSC Metals North Tract V.P.<br>City of Venice, IL VP ps. |  |                                  |  |
| 5. NAME OF DRILLER<br>Chris Anthony                                                                                               |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich 0-120                |  |                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich 0-120<br>using 0.5 HSA and<br>3" x 2" Split Spoon<br>Hand Auger |  | 8. HOLE LOCATION<br>N/A                                                 |  |                                  |  |
| 8. DATE STARTED<br>10-24-02                                                                                                       |  | 9. DATE COMPLETED<br>10-24-02                                           |  |                                  |  |
| 9. OVERBURDEN THICKNESS<br>N/A                                                                                                    |  | 10. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A     |  |                                  |  |
| 10. DEPTH DRILLED INTO ROCK<br>N/A                                                                                                |  | 11. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                     |  |                                  |  |
| 11. TOTAL DEPTH OF HOLE<br>3.0' BGS                                                                                               |  | 12. TOTAL NUMBER OF CORE BOXES<br>0                                     |  |                                  |  |
| 13. GEOTECHNICAL SAMPLES<br>0                                                                                                     |  | 14. DISTURBED<br>0                                                      |  | 15. UNDISTURBED<br>0             |  |
| 16. SAMPLES FOR CHEMICAL ANALYSIS<br>0                                                                                            |  | 17. METALS<br>0                                                         |  | 18. OTHER (SPECIFY)<br>RAD       |  |
| 19. DISPOSITION OF HOLE<br>0                                                                                                      |  | 20. SACK FILLED<br>Yes                                                  |  | 21. MONITORING WELL<br>0         |  |
| 22. SIGNATURE OF INSPECTOR<br>G. Miller                                                                                           |  | 23. TOTAL CORE RECOVERY<br>0%                                           |  |                                  |  |

## LOCATION SKETCH/COMMENTS

SCALE: Not to scale



FUS RAP / SLDs

SLD 72165 QCLa

| HTRW DRILLING LOG       |                                                                                                                             | CONTINUATION SHEET         |              | SHEET 2 OF 2 |                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------|--------------|-------------------------------------------------------------------|
| PROJECT: FUS RAP / SLD5 |                                                                                                                             | INSPECTOR: Phillip Statler |              | SHEET 2 OF 2 |                                                                   |
| DEPTH (ft)              | DESCRIPTION OF MATERIALS                                                                                                    | WATER CONTENT (%)          | RECOVERY (%) | SLD 72165 QC | REMARKS                                                           |
| 1.0                     | silty fine sand w/ few med to coarse gravel; H. loose, poorly graded; H. brn.; dry; few cinders; few slag; few brick frags. | N/A                        | N/A          | SLD 72165 QC | archive sample taken from 0.0 - 1.0' BGS                          |
| 2.0                     | silty clay w/ few med. to coarse gravel; med. plast. med. dense; med. stiff; H. brn.; dry; trace brick frags.               | N/A                        | N/A          | SLD 72165 QC | archive sample taken from 1.5 - 2.0' BGS                          |
| 3.0                     |                                                                                                                             | N/A                        | N/A          | SLD 72165 QC | Hit refusal w/ hard auger at 3.0' BGS                             |
| 4.0                     |                                                                                                                             |                            |              |              | Backgrounds:<br>NAI: 7300<br>PID: 0.0                             |
| 5.0                     |                                                                                                                             |                            |              |              | Back filled boring w/ 1.5 bags of bentonite chips capped w/ soil. |
| 6.0                     |                                                                                                                             |                            |              |              |                                                                   |
| 7.0                     |                                                                                                                             |                            |              |              |                                                                   |
| 8.0                     |                                                                                                                             |                            |              |              |                                                                   |
| 9.0                     |                                                                                                                             |                            |              |              |                                                                   |
| 10.0                    |                                                                                                                             |                            |              |              |                                                                   |





# HTRW DRILLING LOG (CONTINUATION SHEET)

| PROJECT     |       | INSPECTOR                                                                                                                                  |               | DATE               |                                      | SHEET  |                                                                                                                             |
|-------------|-------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------|--------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------|
| FUSRAP/SLDS |       | Phillip Station                                                                                                                            |               | SLD 7216500 (b)    |                                      | 2 of 2 |                                                                                                                             |
| REV.        | DEPTH | DESCRIPTION OF MATERIALS                                                                                                                   | FIELD SAMPLES | LABORATORY SAMPLES | SLD                                  | SLD    | SLD                                                                                                                         |
| 101         | 102   | 103                                                                                                                                        | 104           | 105                | 106                                  | 107    | 108                                                                                                                         |
| COVER       |       | asphalt cover material                                                                                                                     | 5500<br>0.0   |                    | SLD 7216500<br>cover 10-29-02 (1370) |        |                                                                                                                             |
| CL          | 1     | silty clay w/ few med. to coarse gravel, stiff to very stiff, med. plant, dk. brn, few cinders and slag, trace brick frags, few fine sand. | 5500<br>0.0   | 1.7/<br>2.0        | SLP 72165-1<br>2                     | 13     |                                                                                                                             |
|             |       |                                                                                                                                            | 5000<br>0.0   |                    | 1345                                 | 18     |                                                                                                                             |
|             |       |                                                                                                                                            | 5100<br>0.0   |                    |                                      |        |                                                                                                                             |
|             | 2     | limestone cobble in tip                                                                                                                    | 4900<br>0.0   | no recovery        | SLD 72191<br>1350                    | 18     |                                                                                                                             |
|             |       |                                                                                                                                            | 5600<br>0.0   |                    |                                      | 19     |                                                                                                                             |
|             |       |                                                                                                                                            | 4600<br>0.0   |                    |                                      | 12     |                                                                                                                             |
|             | 3     |                                                                                                                                            | 5900<br>0.0   | 1.9/<br>2.0        |                                      | 5      |                                                                                                                             |
|             |       |                                                                                                                                            | 5300<br>0.0   |                    |                                      | 3      |                                                                                                                             |
|             |       | few weathered wood frags.                                                                                                                  | 4900<br>0.0   |                    | SLD 72300<br>1400                    | 5      |                                                                                                                             |
|             | 4     |                                                                                                                                            | 5700<br>0.0   | 1.9/<br>2.0        |                                      | 2      |                                                                                                                             |
|             |       | few weathered wood frags.                                                                                                                  | 4900<br>0.0   |                    | SLD 72309<br>1405                    | 2      |                                                                                                                             |
|             |       |                                                                                                                                            | 5000<br>0.0   |                    |                                      | 5      |                                                                                                                             |
|             | 5     |                                                                                                                                            |               | no recovery        |                                      | 2      |                                                                                                                             |
|             | 6     |                                                                                                                                            |               |                    |                                      |        |                                                                                                                             |
|             |       | TD: 6.0' BGS<br>1400<br>10-29-02                                                                                                           |               |                    |                                      |        | Background:<br>NATs 4,900<br>PTD: 0.0<br>Backfilled<br>boring w/<br>3.0 bags of<br>bentonite chips<br>capped w/<br>asphalt. |

FUSRAP/SLDS

SLD 72165 00 (b)

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                               |  | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER <u>SLW 72210</u>   |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------|--|----------------------------------------------------------------------------|--|--------------------------------|--|
| 1. COMPANY NAME<br><u>Shaw E &amp; I</u>                                                                                                                                                                                                                                                                                                                                                                                                                     |  | 2. DRILLING SUBCONTRACTOR<br><u>MES, Inc.</u> |  | SHEET <u>1</u> OF <u>2</u>                                                 |  | SHEETS                         |  |
| 3. PROJECT<br><u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                               |  | 4. LOCATION<br><u>PSC Metals North Tract V.P.</u>                          |  |                                |  |
| 5. NAME OF DRILLER<br><u>Chris Anthony</u>                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                               |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>Diedrich D-120</u>            |  |                                |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Diedrich D-120</u><br><u>using 8/4" HSA and</u><br><u>3" x 2" split spoon.</u>                                                                                                                                                                                                                                                                                                                   |  |                                               |  | 8. HOLE LOCATION<br><u>See location sketch</u>                             |  |                                |  |
| 9. SURFACE ELEVATION<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                               |  | 10. DATE STARTED<br><u>1-16-03</u>                                         |  |                                |  |
| 11. DATE COMPLETED<br><u>1-16-03</u>                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                               |  | 12. OVERBURDEN THICKNESS<br><u>N/A</u>                                     |  |                                |  |
| 13. DEPTH DRILLED INTO ROCK<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                               |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                |  |
| 14. TOTAL DEPTH OF HOLE<br><u>6.0 FT BGS</u>                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                               |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                |  |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                               |  | 18. GEOTECHNICAL SAMPLES                                                   |  |                                |  |
| 18. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | DISTURBED                                     |  | UNDISTURBED                                                                |  | 19. TOTAL NUMBER OF CONE BOXES |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                            |  | VOC                                           |  | METALS                                                                     |  | OTHER (SPECIFY)                |  |
| 21. TOTAL CONE RECOVERY                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | RAD                                           |  | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | BACKFILLED                                    |  | MONITORING WELL                                                            |  | 23. SIGNATURE OF INSPECTOR     |  |
| Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | N/A                                           |  | N/A                                                                        |  | <u>[Signature]</u>             |  |
| <div style="display: flex; justify-content: space-between;"> <div> <p>LOCATION SKETCH/COMMENTS</p> <p>Witnessed by: <u>Susan Adams</u></p> <p>SCALE: <u>Not to Scale</u></p> </div> <div> <p>Terms used to describe %</p> <p>Trace - <math>\leq 5\%</math></p> <p>Few - <math>5-10\%</math></p> <p>Little - <math>15-25\%</math></p> <p>Some - <math>20-35\%</math></p> <p>Mostly - <math>50-100\%</math></p> </div> </div>                                  |  |                                               |  |                                                                            |  |                                |  |
| <div style="position: relative; width: 100%; height: 100%;"> <div style="position: absolute; top: 10%; left: 10%;">N</div> <div style="position: absolute; top: 40%; left: 40%;">SLW 72210</div> <div style="position: absolute; top: 60%; left: 60%;">SLW 72211</div> <div style="position: absolute; top: 80%; left: 70%;">SLW 72213</div> <div style="position: absolute; top: 80%; left: 50%; border: 1px solid black; padding: 5px;">Bldg.</div> </div> |  |                                               |  |                                                                            |  |                                |  |
| PROJECT <u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                               |  |                                                                            |  | HOLE NO. <u>SLW 72210</u>      |  |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                        |                 |          |           |         |         |
|----------------------------------------|----------------------------------------------------------------------------------------|-----------------|----------|-----------|---------|---------|
| PROJECT                                |                                                                                        | INSPECTOR       |          | HOLE NO.  |         |         |
| FUSRAP / SLDs                          |                                                                                        | Phillip Statler |          | SLD 72210 |         |         |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                               | REMARKS         | RECOVERY | REMARKS   | REMARKS | REMARKS |
| 0.0                                    |                                                                                        |                 | RECOVERY | SLD 72210 | 69      |         |
| 1.0                                    | silty fine sand w/ some med. gravel, dense to very dense, poorly graded, it. brn, dry, |                 | 2.0      | SLD 72210 | 45      |         |
| 2.0                                    | low clay, trace brick frags                                                            |                 | 2.0      | SLD 72210 | 38      |         |
| 3.0                                    | Poor                                                                                   |                 | N/A      |           | 36      |         |
| 4.0                                    |                                                                                        |                 | N/A      |           | 30      |         |
| 5.0                                    | recovery (< 1.3' BGS)                                                                  |                 | N/A      |           | 20      |         |
| 6.0                                    | See SLD 722108 for description                                                         |                 | N/A      |           | 20      |         |
| 7.0                                    |                                                                                        |                 | N/A      |           | 16      |         |
| 8.0                                    |                                                                                        |                 | N/A      |           | 18      |         |
| 9.0                                    |                                                                                        |                 | N/A      |           | 10      |         |
| 10.0                                   |                                                                                        |                 | N/A      |           | 10      |         |
| 11.0                                   |                                                                                        |                 | N/A      |           | 9       |         |
| 12.0                                   | TD: 6.0' BGS                                                                           |                 |          |           |         |         |
| 13.0                                   | 1-16-03                                                                                |                 |          |           |         |         |
| 14.0                                   | 1545                                                                                   |                 |          |           |         |         |
| 15.0                                   |                                                                                        |                 |          |           |         |         |
| 16.0                                   |                                                                                        |                 |          |           |         |         |
| 17.0                                   |                                                                                        |                 |          |           |         |         |
| 18.0                                   |                                                                                        |                 |          |           |         |         |
| 19.0                                   |                                                                                        |                 |          |           |         |         |
| 20.0                                   |                                                                                        |                 |          |           |         |         |
| 21.0                                   |                                                                                        |                 |          |           |         |         |
| 22.0                                   |                                                                                        |                 |          |           |         |         |
| 23.0                                   |                                                                                        |                 |          |           |         |         |
| 24.0                                   |                                                                                        |                 |          |           |         |         |
| 25.0                                   |                                                                                        |                 |          |           |         |         |
| 26.0                                   |                                                                                        |                 |          |           |         |         |
| 27.0                                   |                                                                                        |                 |          |           |         |         |
| 28.0                                   |                                                                                        |                 |          |           |         |         |
| 29.0                                   |                                                                                        |                 |          |           |         |         |
| 30.0                                   |                                                                                        |                 |          |           |         |         |
| 31.0                                   |                                                                                        |                 |          |           |         |         |
| 32.0                                   |                                                                                        |                 |          |           |         |         |
| 33.0                                   |                                                                                        |                 |          |           |         |         |
| 34.0                                   |                                                                                        |                 |          |           |         |         |
| 35.0                                   |                                                                                        |                 |          |           |         |         |
| 36.0                                   |                                                                                        |                 |          |           |         |         |
| 37.0                                   |                                                                                        |                 |          |           |         |         |
| 38.0                                   |                                                                                        |                 |          |           |         |         |
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| 94.0                                   |                                                                                        |                 |          |           |         |         |
| 95.0                                   |                                                                                        |                 |          |           |         |         |
| 96.0                                   |                                                                                        |                 |          |           |         |         |
| 97.0                                   |                                                                                        |                 |          |           |         |         |
| 98.0                                   |                                                                                        |                 |          |           |         |         |
| 99.0                                   |                                                                                        |                 |          |           |         |         |
| 100.0                                  |                                                                                        |                 |          |           |         |         |

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |                 |  | DISTRICT <b>St. Louis</b>                                               |                 | HOLE NUMBER <b>SLD 72210B</b> |   |   |   |                                               |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|--|-------------------------------------------------------------------------|-----------------|-------------------------------|---|---|---|-----------------------------------------------|--|--|--|
| 1. COMPANY NAME <b>Shaw E &amp; I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |                 |  | 2. DRILLING SUBCONTRACTOR <b>MES, Inc.</b>                              |                 | SHEET <b>1</b> OF <b>2</b>    |   |   |   |                                               |  |  |  |
| 3. PROJECT <b>FUSRAP/SLDS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                 |  | 4. LOCATION <b>PSC Metals North Tract V.P.</b>                          |                 |                               |   |   |   |                                               |  |  |  |
| 5. NAME OF DRILLER <b>Chris Anthony</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |                 |  | 6. MANUFACTURER'S DESIGNATION OF DRILL <b>Diedrich D-120</b>            |                 |                               |   |   |   |                                               |  |  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <b>Diedrich D-120 using 3/4" HSA and 3" x 2" split spoon.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |                 |  | 8. HOLE LOCATION <b>See location sketch</b>                             |                 |                               |   |   |   |                                               |  |  |  |
| 9. SURFACE ELEVATION <b>N/A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |                 |  | 10. DATE STARTED <b>7-16-03</b>                                         |                 |                               |   |   |   |                                               |  |  |  |
| 11. DATE COMPLETED <b>7-16-03</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |                 |  | 12. OVERBURDEN THICKNESS <b>N/A</b>                                     |                 |                               |   |   |   |                                               |  |  |  |
| 13. DEPTH DRILLED INTO ROCK <b>N/A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                 |  | 14. TOTAL DEPTH OF HOLE <b>6.0 FT BGS</b>                               |                 |                               |   |   |   |                                               |  |  |  |
| 15. DEPTH GROUNDWATER ENCOUNTERED <b>N/A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |                 |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <b>N/A</b> |                 |                               |   |   |   |                                               |  |  |  |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <b>N/A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |                 |  | 18. GEOTECHNICAL SAMPLES                                                |                 |                               |   |   |   |                                               |  |  |  |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:33%;">DISTURBED</th> <th style="width:33%;">UNDISTURBED</th> <th style="width:34%;">OTHER (SPECIFY)</th> </tr> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> </table>                                                                                                                                                                                                           |                 |                 |  | DISTURBED                                                               | UNDISTURBED     | OTHER (SPECIFY)               | 0 | 0 | 0 | 19. TOTAL NUMBER OF CORE BOXES <b>0</b>       |  |  |  |
| DISTURBED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | UNDISTURBED     | OTHER (SPECIFY) |  |                                                                         |                 |                               |   |   |   |                                               |  |  |  |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0               | 0               |  |                                                                         |                 |                               |   |   |   |                                               |  |  |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |                 |  | 21. TOTAL CORE RECOVERY <b>0 %</b>                                      |                 |                               |   |   |   |                                               |  |  |  |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:33%;">VOC</th> <th style="width:33%;">METALS</th> <th style="width:34%;">OTHER (SPECIFY)</th> </tr> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> </table>                                                                                                                                                                                                                      |                 |                 |  | VOC                                                                     | METALS          | OTHER (SPECIFY)               | 0 | 0 | 0 | 22. DISPOSITION OF HOLE                       |  |  |  |
| VOC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | METALS          | OTHER (SPECIFY) |  |                                                                         |                 |                               |   |   |   |                                               |  |  |  |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0               | 0               |  |                                                                         |                 |                               |   |   |   |                                               |  |  |  |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:33%;">RACQUETED</th> <th style="width:33%;">MONITORING WELL</th> <th style="width:34%;">OTHER (SPECIFY)</th> </tr> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> </table>                                                                                                                                                                                                       |                 |                 |  | RACQUETED                                                               | MONITORING WELL | OTHER (SPECIFY)               | 0 | 0 | 0 | 23. SIGNATURE OF INSPECTOR <b>[Signature]</b> |  |  |  |
| RACQUETED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | MONITORING WELL | OTHER (SPECIFY) |  |                                                                         |                 |                               |   |   |   |                                               |  |  |  |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0               | 0               |  |                                                                         |                 |                               |   |   |   |                                               |  |  |  |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p>LOCATION SKETCH/COMMENTS</p> <p>Witnessed by: <b>Susan Adams</b></p> <p><b>Susan A. Adams</b></p> <p>SLD 72210B (moved 1.0' to N due to poor recovery)</p> <p>SLD 72210</p> <p>SLD 72211</p> <p>SLD 72213</p> <p>Bldg.</p> </div> <div style="width: 35%;"> <p>SCALE: Not to Scale</p> <p>Terms used to describe %</p> <p>Trace - &lt; 5 %</p> <p>Few - 5 - 10 %</p> <p>Little - 15 - 25 %</p> <p>Some - 20 - 35 %</p> <p>Mostly - 50 - 100 %</p> </div> </div> |                 |                 |  |                                                                         |                 |                               |   |   |   |                                               |  |  |  |
| PROJECT <b>FUSRAP/SLDS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |                 |  |                                                                         |                 | HOLE NO. <b>SLD 72210B</b>    |   |   |   |                                               |  |  |  |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                           |                |                                                    |            |      |        | HOLE NO. |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------|------------|------|--------|----------|
| PROJECT                                |                                                                                                                           | INSPECTOR      |                                                    | DATE       |      | SHEET  |          |
| FUSRAP / SLDs                          |                                                                                                                           | Philip Staller |                                                    | SLD 722108 |      | 2 of 2 |          |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                                                                  | RECOVERY (%)   | REMARKS                                            | SLD        | DATE | TIME   | REMARKS  |
| N/A                                    | SEE SLD 72210 for description                                                                                             | N/A            | Augered down to 2.0' BGS and drove spoons.         | N/A        |      |        |          |
| 1.0                                    |                                                                                                                           | N/A            |                                                    | N/A        |      |        |          |
| 2.0                                    |                                                                                                                           | N/A            |                                                    | N/A        |      |        |          |
| 3.0                                    | Silty fine sand w/ few med. gravel, loose, poorly graded, 1/4 in. to 1/2 in. dry, few cinders, few slag, few brick frags. | 1.7 / 2.0      | archive sample from 3.0 - 3.5' BGS; 1-16-03; 1600. | 7          |      |        |          |
| 4.0                                    |                                                                                                                           | 1.8 / 2.0      | archive sample from 4.5 - 5.0' BGS, 1605           | 12         |      |        |          |
| 5.0                                    | Silty clay, med. offset to stick, med. plast, H, brn, dry, trace brick frags.                                             |                |                                                    | 7          |      |        |          |
| 6.0                                    |                                                                                                                           |                |                                                    | 9          |      |        |          |
| 7.0                                    | TD: 6.0' BGS 1-16-03 1555                                                                                                 |                | Backgrounds                                        | 10         |      |        |          |
| 8.0                                    |                                                                                                                           |                | NaI: 5,100                                         | 9          |      |        |          |
| 9.0                                    |                                                                                                                           |                | PID: 0.0                                           | 7          |      |        |          |
| 10.0                                   |                                                                                                                           |                | Backfilled boring w/ 30 bags of bentonite chips.   | 5          |      |        |          |

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                |                 |                 |  | DISTRICT <u>St. Louis</u>                                               |                 | HOLE NUMBER <u>SLD 72211</u> |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |     |        |                 |   |   |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|--|-------------------------------------------------------------------------|-----------------|------------------------------|---|---|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-----|--------|-----------------|---|---|---|
| 1. COMPANY NAME <u>Shaw E &amp; I</u>                                                                                                                                                                                                                                                                                                                                                                            |                 |                 |  | 2. DRILLING SUBCONTRACTOR <u>MES, Inc.</u>                              |                 | SHEET <u>1</u> OF <u>2</u>   |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |     |        |                 |   |   |   |
| 3. PROJECT <u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                    |                 |                 |  | 4. LOCATION <u>PSC Metals North Tract V.P.</u>                          |                 |                              |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |     |        |                 |   |   |   |
| 5. NAME OF DRILLER <u>Chris Anthony</u>                                                                                                                                                                                                                                                                                                                                                                          |                 |                 |  | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>Diedrich D-120</u>            |                 |                              |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |     |        |                 |   |   |   |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>Diedrich D-120</u><br><u>using 3/4" HSA and</u><br><u>3" x 2" split spoon.</u>                                                                                                                                                                                                                                                                          |                 |                 |  | 8. HOLE LOCATION <u>See location sketch</u>                             |                 |                              |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |     |        |                 |   |   |   |
| 9. SURFACE ELEVATION <u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                  |                 |                 |  | 10. DATE STARTED <u>1-16-03</u>                                         |                 |                              |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |     |        |                 |   |   |   |
| 11. DATE COMPLETED <u>1-16-03</u>                                                                                                                                                                                                                                                                                                                                                                                |                 |                 |  | 12. OVERBURDEN THICKNESS <u>N/A</u>                                     |                 |                              |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |     |        |                 |   |   |   |
| 13. DEPTH DRILLED INTO ROCK <u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                           |                 |                 |  | 14. TOTAL DEPTH OF HOLE <u>6.0 FT BGS</u>                               |                 |                              |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |     |        |                 |   |   |   |
| 15. DEPTH GROUNDWATER ENCOUNTERED <u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                     |                 |                 |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u> |                 |                              |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |     |        |                 |   |   |   |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u>                                                                                                                                                                                                                                                                                                                                                          |                 |                 |  | 18. GEOTECHNICAL SAMPLES                                                |                 |                              |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |     |        |                 |   |   |   |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%; text-align: center;">DISTURBED</td> <td style="width:33%; text-align: center;">UNDISTURBED</td> <td style="width:33%;"></td> </tr> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> </table>                                         |                 |                 |  | DISTURBED                                                               | UNDISTURBED     |                              | 0 | 0 | 0 | 19. TOTAL NUMBER OF CORE BOXES <u>0</u>                                                                                                                                                                                                                                                                                                                                                          |  |  |  |     |        |                 |   |   |   |
| DISTURBED                                                                                                                                                                                                                                                                                                                                                                                                        | UNDISTURBED     |                 |  |                                                                         |                 |                              |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |     |        |                 |   |   |   |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                | 0               | 0               |  |                                                                         |                 |                              |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |     |        |                 |   |   |   |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                |                 |                 |  | 21. TOTAL CORE RECOVERY                                                 |                 |                              |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |     |        |                 |   |   |   |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%; text-align: center;">KOC</td> <td style="width:33%; text-align: center;">METALS</td> <td style="width:33%; text-align: center;">OTHER (SPECIFY)</td> </tr> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> </table>                 |                 |                 |  | KOC                                                                     | METALS          | OTHER (SPECIFY)              | 0 | 0 | 0 | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%; text-align: center;">KOC</td> <td style="width:33%; text-align: center;">METALS</td> <td style="width:33%; text-align: center;">OTHER (SPECIFY)</td> </tr> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> </table> |  |  |  | KOC | METALS | OTHER (SPECIFY) | 0 | 0 | 0 |
| KOC                                                                                                                                                                                                                                                                                                                                                                                                              | METALS          | OTHER (SPECIFY) |  |                                                                         |                 |                              |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |     |        |                 |   |   |   |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                | 0               | 0               |  |                                                                         |                 |                              |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |     |        |                 |   |   |   |
| KOC                                                                                                                                                                                                                                                                                                                                                                                                              | METALS          | OTHER (SPECIFY) |  |                                                                         |                 |                              |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |     |        |                 |   |   |   |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                | 0               | 0               |  |                                                                         |                 |                              |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |     |        |                 |   |   |   |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                          |                 |                 |  | 23. SIGNATURE OF INSPECTOR                                              |                 |                              |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |     |        |                 |   |   |   |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%; text-align: center;">SACKFILLED</td> <td style="width:33%; text-align: center;">MONITORING WELL</td> <td style="width:33%; text-align: center;">OTHER (SPECIFY)</td> </tr> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> </table> |                 |                 |  | SACKFILLED                                                              | MONITORING WELL | OTHER (SPECIFY)              | 0 | 0 | 0 | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%; text-align: center;">KOC</td> <td style="width:33%; text-align: center;">METALS</td> <td style="width:33%; text-align: center;">OTHER (SPECIFY)</td> </tr> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> </table> |  |  |  | KOC | METALS | OTHER (SPECIFY) | 0 | 0 | 0 |
| SACKFILLED                                                                                                                                                                                                                                                                                                                                                                                                       | MONITORING WELL | OTHER (SPECIFY) |  |                                                                         |                 |                              |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |     |        |                 |   |   |   |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                | 0               | 0               |  |                                                                         |                 |                              |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |     |        |                 |   |   |   |
| KOC                                                                                                                                                                                                                                                                                                                                                                                                              | METALS          | OTHER (SPECIFY) |  |                                                                         |                 |                              |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |     |        |                 |   |   |   |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                | 0               | 0               |  |                                                                         |                 |                              |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |     |        |                 |   |   |   |
| 24. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                          |                 |                 |  | 25. SIGNATURE OF INSPECTOR                                              |                 |                              |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |     |        |                 |   |   |   |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%; text-align: center;">SACKFILLED</td> <td style="width:33%; text-align: center;">MONITORING WELL</td> <td style="width:33%; text-align: center;">OTHER (SPECIFY)</td> </tr> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> </table> |                 |                 |  | SACKFILLED                                                              | MONITORING WELL | OTHER (SPECIFY)              | 0 | 0 | 0 | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%; text-align: center;">KOC</td> <td style="width:33%; text-align: center;">METALS</td> <td style="width:33%; text-align: center;">OTHER (SPECIFY)</td> </tr> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> </table> |  |  |  | KOC | METALS | OTHER (SPECIFY) | 0 | 0 | 0 |
| SACKFILLED                                                                                                                                                                                                                                                                                                                                                                                                       | MONITORING WELL | OTHER (SPECIFY) |  |                                                                         |                 |                              |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |     |        |                 |   |   |   |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                | 0               | 0               |  |                                                                         |                 |                              |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |     |        |                 |   |   |   |
| KOC                                                                                                                                                                                                                                                                                                                                                                                                              | METALS          | OTHER (SPECIFY) |  |                                                                         |                 |                              |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |     |        |                 |   |   |   |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                | 0               | 0               |  |                                                                         |                 |                              |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |     |        |                 |   |   |   |
| LOCATION SKETCH/COMMENTS <u>Witnessed by: Robin Parks</u> <u>SCALE: Not to Scale</u><br><u>Susan Adams</u>                                                                                                                                                                                                                                                                                                       |                 |                 |  |                                                                         |                 |                              |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |     |        |                 |   |   |   |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> </div> <div style="width: 35%; border: 1px solid black; padding: 5px;"> <p><u>Terms used to describe %</u></p> <p>Trace - &lt; 5 %</p> <p>Few - 5 - 10 %</p> <p>Little - 15 - 25 %</p> <p>Some - 20 - 35 %</p> <p>Mostly - 50 - 100 %</p> </div> </div>                                                                   |                 |                 |  |                                                                         |                 |                              |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |     |        |                 |   |   |   |
| PROJECT <u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                       |                 |                 |  | HOLE NO. <u>SLD 72211</u>                                               |                 |                              |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |     |        |                 |   |   |   |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                          |                           |          |                   |           |           | SLD 72211                                                                                             |
|----------------------------------------|--------------------------|---------------------------|----------|-------------------|-----------|-----------|-------------------------------------------------------------------------------------------------------|
| PROJECT FUSRAP / SLDs                  |                          | INSPECTOR Phillip Statter |          | SHEET 2 of 2      |           | SHEETS    |                                                                                                       |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS | WATER RECOVERY (ft)       | RECOVERY | SLD 72211         | SLD 72211 | SLD 72211 | REMARKS                                                                                               |
| SM                                     | 1.0                      | 5'00 0.0                  | 2.0      | SLD 72211 1030    | 93        | (1030)    |                                                                                                       |
|                                        |                          | 5'00 0.0                  | 2.0      |                   | 108       |           |                                                                                                       |
|                                        |                          | 5'00 0.0                  | 2.0      |                   | 33        |           |                                                                                                       |
| CL                                     | 2.0                      | 6'00 0.0                  | 1.8      | SLD 72211 1040    | 26        |           |                                                                                                       |
|                                        |                          | 5'00 0.0                  | 2.0      |                   | 10        |           |                                                                                                       |
|                                        |                          | 5'00 0.0                  | 2.0      |                   | 12        |           |                                                                                                       |
|                                        |                          | 5'00 0.0                  |          | SLD 72211 archive | 15        |           | archive sample from 3.0-3.5' BGS (1100)                                                               |
|                                        |                          | 4'00 0.0                  |          |                   | 13        |           |                                                                                                       |
| N/A                                    | 4.0                      | N/A                       | N/A      |                   | 5         |           | HH ob-struction at 5.0' BGS                                                                           |
|                                        |                          | N/A                       | N/A      |                   | 7         |           |                                                                                                       |
|                                        |                          | N/A                       | N/A      |                   | 7         |           |                                                                                                       |
|                                        |                          | N/A                       | N/A      |                   | 6         |           |                                                                                                       |
|                                        | 5.0                      |                           |          |                   |           |           |                                                                                                       |
|                                        | 6.0                      |                           |          |                   |           |           |                                                                                                       |
|                                        | 7.0                      |                           |          |                   |           |           |                                                                                                       |
|                                        | 8.0                      |                           |          |                   |           |           |                                                                                                       |
|                                        | 9.0                      |                           |          |                   |           |           |                                                                                                       |
|                                        | 10.0                     |                           |          |                   |           |           |                                                                                                       |
| TD: 6.0' BGS<br>1-16-03<br>1030        |                          |                           |          |                   |           |           | Backgrounds<br>NAT: 5'00<br>PID: 0.0<br>Backfilled<br>boring w/<br>3.0 bags of<br>bentonite<br>chips. |



| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                     |  |                                               |  | DISTRICT <b>St. Louis</b>                                                  |  | HOLE NUMBER <b>SLD 72211B</b> |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------|--|----------------------------------------------------------------------------|--|-------------------------------|--|
| 1. COMPANY NAME<br><b>Shaw E &amp; I</b>                                                                                                                                                                                                                                                                                                                                              |  | 2. DRILLING SUBCONTRACTOR<br><b>MES, Inc.</b> |  |                                                                            |  | SHEET <b>1</b> OF <b>2</b>    |  |
| 3. PROJECT<br><b>FUSRAP/SLDS</b>                                                                                                                                                                                                                                                                                                                                                      |  |                                               |  | 4. LOCATION<br><b>PSC Metals North Tract V.P.</b>                          |  |                               |  |
| 5. NAME OF DRILLER<br><b>Chris Anthony</b>                                                                                                                                                                                                                                                                                                                                            |  |                                               |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><b>Diedrich D-120</b>            |  |                               |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><b>Diedrich D-120<br/>using 3/4" HSA and<br/>3" x 3" split spoon.</b>                                                                                                                                                                                                                                                        |  |                                               |  | 8. HOLE LOCATION<br><b>See location sketch</b>                             |  |                               |  |
| 9. SURFACE ELEVATION<br><b>N/A</b>                                                                                                                                                                                                                                                                                                                                                    |  |                                               |  | 10. DATE STARTED<br><b>7-16-03</b>                                         |  |                               |  |
| 11. DATE COMPLETED<br><b>7-16-03</b>                                                                                                                                                                                                                                                                                                                                                  |  |                                               |  | 12. OVERBURDEN THICKNESS<br><b>N/A</b>                                     |  |                               |  |
| 13. DEPTH DRILLED INTO ROCK<br><b>N/A</b>                                                                                                                                                                                                                                                                                                                                             |  |                                               |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br><b>N/A</b>                            |  |                               |  |
| 14. TOTAL DEPTH OF HOLE<br><b>6.0 FT BGS</b>                                                                                                                                                                                                                                                                                                                                          |  |                                               |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><b>N/A</b> |  |                               |  |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><b>N/A</b>                                                                                                                                                                                                                                                                                                                            |  |                                               |  | 18. GEOTECHNICAL SAMPLES                                                   |  |                               |  |
| DISTURBED                                                                                                                                                                                                                                                                                                                                                                             |  | UNDISTURBED                                   |  | 19. TOTAL NUMBER OF CORE BOXES                                             |  |                               |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                     |  | 21. TOTAL CORE RECOVERY                       |  | 22. DISPOSITION OF HOLE                                                    |  |                               |  |
| YES                                                                                                                                                                                                                                                                                                                                                                                   |  | NO                                            |  | 23. SIGNATURE OF INSPECTOR                                                 |  |                               |  |
| YES                                                                                                                                                                                                                                                                                                                                                                                   |  | NO                                            |  | 24. SIGNATURE OF DRILLER                                                   |  |                               |  |
| <div style="display: flex; justify-content: space-between;"> <div> <p>LOCATION SKETCH/COMMENTS</p> <p>Witnessed by: <b>Susan Adams</b></p> <p><i>Susan Adams</i></p> </div> <div> <p>SCALE: Not to Scale</p> <p>Terms used to describe %</p> <p>Trace - &lt; 5 %</p> <p>Few - 5 - 10 %</p> <p>Little - 15 - 25 %</p> <p>Some - 20 - 35 %</p> <p>Mostly - 50 - 100 %</p> </div> </div> |  |                                               |  |                                                                            |  |                               |  |
| <div style="display: flex; justify-content: space-between;"> <div> <p>PROJECT <b>FUSRAP/SLDS</b></p> </div> <div> <p>HOLE NO. <b>SLD 72211B</b></p> </div> </div>                                                                                                                                                                                                                     |  |                                               |  |                                                                            |  |                               |  |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                        |                                                     |                           |                |                  | SLO 72241 B                                                                                |         |
|----------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------|---------------------------|----------------|------------------|--------------------------------------------------------------------------------------------|---------|
| PROJECT FUSRAP / SLDs                  |                                                                        | INSPECTOR PHILIP Stoffer                            |                           | SHEET 2 of 2   |                  | SHEETS                                                                                     |         |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS (ft)                                          | RECOVERY (%)                                        | REMARKS                   | REMARKS        | REMARKS          | REMARKS                                                                                    | REMARKS |
| 1.0                                    | See SLD 72241 for description.                                         | N/A                                                 | N/A                       | N/A            | N/A              | N/A                                                                                        | N/A     |
| 2.0                                    |                                                                        | N/A                                                 |                           |                |                  |                                                                                            |         |
| 3.0                                    |                                                                        | N/A                                                 |                           |                |                  |                                                                                            |         |
| 4.0                                    |                                                                        | N/A                                                 |                           |                |                  |                                                                                            |         |
| 5.0                                    |                                                                        | N/A                                                 |                           |                |                  |                                                                                            |         |
| 6.0                                    | CL silty clay, med-stiff, med. plast., 1/4" brg, dry, red brick frags. | 5.0 0.0<br>5.2 0.0<br>5.5 0.0<br>5.8 0.0<br>6.0 0.0 | 1.3<br>2.0<br>no recovery | SLD 72241 11/6 | 6<br>8<br>7<br>4 | archive sample from 4.8-5.3 BGS. 1-16-03; 11/6                                             |         |
| 7.0                                    | TD: 6.0' BGS 1-16-03 1100                                              |                                                     |                           |                |                  | Backgrounds:<br>Nat: 5100<br>PID: 0.0<br>Backfilled boring w/ 3.0 bags of bentonite chips. |         |
| 8.0                                    |                                                                        |                                                     |                           |                |                  |                                                                                            |         |
| 9.0                                    |                                                                        |                                                     |                           |                |                  |                                                                                            |         |
| 10.0                                   |                                                                        |                                                     |                           |                |                  |                                                                                            |         |
| 11.0                                   |                                                                        |                                                     |                           |                |                  |                                                                                            |         |

| HTRW DRILLING LOG                                                                                                     |  | DISTRICT                                                            | MOLE NUMBER               |  |
|-----------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------|---------------------------|--|
| 1. COMPANY NAME<br>Shaw E & I                                                                                         |  | 2. DRILLING SUBCONTRACTOR<br>MES, Inc.                              | SLD 72212<br>SHEET 1 OF 2 |  |
| 3. PROJECT<br>FUSRAP/SLDS                                                                                             |  | 4. LOCATION<br>PSC Metals North Tract V.P.                          |                           |  |
| 5. NAME OF DRILLER<br>Chris Anthony                                                                                   |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120            |                           |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using 3/4" HSA and<br>3" X 2" split spoon. |  | 8. HOLE LOCATION<br>See location sketch                             |                           |  |
| 9. SURFACE ELEVATION<br>N/A                                                                                           |  | 10. DATE STARTED<br>1-15-03                                         |                           |  |
| 11. DATE COMPLETED<br>1-15-03                                                                                         |  | 12. OVERBURDEN THICKNESS<br>N/A                                     |                           |  |
| 13. DEPTH DRILLED INTO ROCK<br>N/A                                                                                    |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br>N/A                            |                           |  |
| 14. TOTAL DEPTH OF MOLE<br>6.0 FT BGS                                                                                 |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A |                           |  |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                                                                   |  | 18. GEOTECHNICAL SAMPLES                                            |                           |  |
| 19. TOTAL NUMBER OF CORE BOXES<br>0                                                                                   |  | 20. SAMPLES FOR CHEMICAL ANALYSIS                                   |                           |  |
| 21. TOTAL CORE RECOVERY<br>0 %                                                                                        |  | 22. DISPOSITION OF MOLE                                             |                           |  |
| 23. SIGNATURE OF INSPECTOR<br>Chris M. Smith                                                                          |  | 24. LOCATION SKETCH/COMMENTS                                        |                           |  |
| 25. WITNESSED BY<br>Gerald Allen                                                                                      |  | 26. SCALE: Not to Scale                                             |                           |  |
| 27. TERMS USED TO DESCRIBE %                                                                                          |  | 28. LOCATION SKETCH/COMMENTS                                        |                           |  |
| Trace - < 5 %                                                                                                         |  | N                                                                   |                           |  |
| Few - 5-10 %                                                                                                          |  | (Moved boring 8' to south line to asphalt)                          |                           |  |
| Little - 15-25 %                                                                                                      |  | SLD 72212                                                           |                           |  |
| Some - 20-35 %                                                                                                        |  | HTZ 69453                                                           |                           |  |
| Mostly - 50-100 %                                                                                                     |  | SLD 72979                                                           |                           |  |
|                                                                                                                       |  | HTZ 69451                                                           |                           |  |
|                                                                                                                       |  | HTZ 69452                                                           |                           |  |
|                                                                                                                       |  | Bldg.                                                               |                           |  |
| PROJECT<br>FUSRAP/SLDS                                                                                                |  | MOLE NO.<br>SLD 72212                                               |                           |  |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                                                                                 |                              |                                 |                       |                       | HOLE NUMBER<br>SLD 72212 |                |  |                                                                                                                                                                                            |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|-----------------------|-----------------------|--------------------------|----------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROJECT<br>FUSRAP / SLDs               |                                                                                                                                                                                 | INSPECTOR<br>Phillip Statter |                                 | SHEET<br>2 of 2       |                       | SHEETS                   |                |  |                                                                                                                                                                                            |
| DEPTH<br>ft                            | DESCRIPTION OF MATERIALS<br>(1)                                                                                                                                                 | WATER<br>TEMPERATURE<br>(2)  | RECOVERY<br>(3)                 | WATER<br>LEVEL<br>(4) | WATER<br>LEVEL<br>(5) | REMARKS<br>(6)           |                |  |                                                                                                                                                                                            |
| SM                                     | Silty fine sand w/mostly med. to coarse gravel, very dense, poorly graded, lt. brn to gr, dry.                                                                                  | 5000                         | 0.0                             | 2.0 / 2.0             | 0.5-0.5               | 155                      | SLD 72212 1445 |  |                                                                                                                                                                                            |
|                                        |                                                                                                                                                                                 | 4900                         | 0.0                             |                       | 0.5-1.0               | 154                      |                |  |                                                                                                                                                                                            |
|                                        |                                                                                                                                                                                 | 4800                         | 0.0                             |                       | 1.0-1.5               | 53                       | SLD 72212 1455 |  |                                                                                                                                                                                            |
|                                        |                                                                                                                                                                                 | 4700                         | 0.0                             |                       | 1.5-2.0               | 43                       |                |  |                                                                                                                                                                                            |
| CL                                     | few brick frags.<br>silty clay, hard, med. plast, dk. brn, dry, trace med. gravel, trace glass, few fine sand<br>few brick frags.<br>clay turning lt. gray, med. gravel absent. | 4500                         | 0.0                             | 1.8 / 2.0             | 2.0-2.5               | 26                       |                |  |                                                                                                                                                                                            |
|                                        |                                                                                                                                                                                 | 4500                         | 0.0                             |                       | 2.5-3.0               | 25                       |                |  |                                                                                                                                                                                            |
|                                        |                                                                                                                                                                                 | 5100                         | 0.0                             | 3.0-3.5               | 14                    | SLD 72401 1515           |                |  |                                                                                                                                                                                            |
|                                        |                                                                                                                                                                                 | 5000                         | 0.0                             | 3.5-4.0               | 10                    |                          |                |  |                                                                                                                                                                                            |
|                                        |                                                                                                                                                                                 | 4700                         | 0.0                             | 4.0-4.5               | 10                    |                          |                |  |                                                                                                                                                                                            |
|                                        |                                                                                                                                                                                 | 5700                         | 0.0                             | 4.5-5.0               | 11                    | SLD 72401 1530           |                |  |                                                                                                                                                                                            |
|                                        |                                                                                                                                                                                 | 5100                         | 0.0                             | 5.0-5.5               | 9                     |                          |                |  |                                                                                                                                                                                            |
|                                        |                                                                                                                                                                                 | 4500                         | 0.0                             | 5.5-6.0               | 9                     |                          |                |  |                                                                                                                                                                                            |
|                                        |                                                                                                                                                                                 |                              | TD: 6.0' BGS<br>1-15-03<br>1445 |                       |                       | no recovery              |                |  | Background!<br>NAI 15060<br>PI: 0.0<br>Backfilled boring w/ 3.0 bags of bentonite chips<br>* Samples will be counted w/ gas proportion meter to select samples for lab. See attached sheet |
|                                        |                                                                                                                                                                                 |                              |                                 |                       |                       |                          |                |  |                                                                                                                                                                                            |
|                                        |                                                                                                                                                                                 |                              |                                 |                       |                       |                          |                |  |                                                                                                                                                                                            |
|                                        |                                                                                                                                                                                 |                              |                                 |                       |                       |                          |                |  |                                                                                                                                                                                            |
|                                        |                                                                                                                                                                                 |                              |                                 |                       |                       |                          |                |  |                                                                                                                                                                                            |
|                                        |                                                                                                                                                                                 |                              |                                 |                       |                       |                          |                |  |                                                                                                                                                                                            |
|                                        |                                                                                                                                                                                 |                              |                                 |                       |                       |                          |                |  |                                                                                                                                                                                            |
|                                        |                                                                                                                                                                                 |                              |                                 |                       |                       |                          |                |  |                                                                                                                                                                                            |
|                                        |                                                                                                                                                                                 |                              |                                 |                       |                       |                          |                |  |                                                                                                                                                                                            |
|                                        |                                                                                                                                                                                 |                              |                                 |                       |                       |                          |                |  |                                                                                                                                                                                            |

RADIOLOGICAL SURVEY FORM

Sample ID SLD 72212 Class 2 Samples

Date Collected: 1-15-03

Instrument #1 Background 5060 cpm

Instrument #2 Background 4500 cpm

Date Analyzed: 1-27-03

Count rate of Empty Pan: Beta 76 cpm

| Sample Depth<br>(inches) | Field Scan of<br>Spoon<br>(Instrument #1) in<br>cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity<br>in Bag in<br>cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-----------------------------------------------------|-------------------------------------------------------|----------------------------------|------------------------------------|----------|
|                          |                                                     |                                                       |                                  | Gross Beta                         | Net Beta |
| 0-6                      | 5000                                                | 4509                                                  | 9                                | 96                                 | 20       |
| 6-12                     | 4700                                                | 4450                                                  | -50                              | 101                                | 25       |
| 12-18                    | 4900                                                | 4606                                                  | 106                              | 132                                | 56       |
| 18-24                    | 4600                                                | 4927                                                  | 427                              | 124                                | 48       |
| 24-30                    | 4500                                                | 4748                                                  | 248                              | 110                                | 34       |
| 30-36                    | 4500                                                | 4742                                                  | 242                              | 119                                | 43       |
| 36-42                    | 5100                                                | 4567                                                  | 67                               | 147                                | 71       |
| 42-48                    | <sup>cpm 1-22-03</sup><br>5000 N/A                  | N/A                                                   | N/A                              | N/A                                | N/A      |
| 48-54                    | 4700                                                | 4570                                                  | 70                               | 120                                | 44       |
| 54-60                    | 5100                                                | 4810                                                  | 310                              | 141                                | 65       |
| 60-66                    | 5100                                                | 4845                                                  | 345                              | 144                                | 68       |
| 66-72                    | <sup>cpm 1-27-03</sup><br>4500 N/A                  | N/A                                                   | N/A                              | N/A                                | N/A      |

\* SLD 72212

\* SLD 72403

\* SLD 72409

\* SLD 72411

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                       |                                                                            | DISTRICT <b>St. Louis</b> |                                      | HOLE NUMBER <b>SLD 72213</b>   |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------|----------------------------------------------------------------------------|---------------------------|--------------------------------------|--------------------------------|--|
| 1. COMPANY NAME<br><b>Shaw E &amp; I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                       | 2. DRILLING SUBCONTRACTOR<br><b>MES, Inc.</b>                              |                           |                                      | SHEET <b>1</b> OF <b>2</b>     |  |
| 3. PROJECT<br><b>FUSRAP/SLDS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                       | 4. LOCATION<br><b>PSC Metals North Tract V.P.</b>                          |                           |                                      |                                |  |
| 5. NAME OF DRILLER<br><b>Chris Anthony</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                       | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><b>Diedrich D-120</b>            |                           |                                      |                                |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><b>Diedrich D-120<br/>using 4 1/2" HSA and<br/>3" x 3" split spear.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                       | 8. HOLE LOCATION<br><b>See location sketch</b>                             |                           |                                      |                                |  |
| 9. <b>PID-21-03 NAT LUB 17504</b><br><b>to 100/100 Cal. Date: 4-13-03 Bkg: 4662</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                       | 10. DATE STARTED<br><b>1-21-03</b>                                         |                           | 11. DATE COMPLETED<br><b>1-21-03</b> |                                |  |
| 12. OVERBURDEN THICKNESS<br><b>N/A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                       | 15. DEPTH GROUNDWATER ENCOUNTERED<br><b>N/A</b>                            |                           |                                      |                                |  |
| 13. DEPTH DRILLED INTO ROCK<br><b>N/A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                       | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><b>N/A</b> |                           |                                      |                                |  |
| 14. TOTAL DEPTH OF HOLE<br><b>6.0 FT BGS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                       | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><b>N/A</b>                 |                           |                                      |                                |  |
| 18. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | DISTURBED             |                                                                            | UNDISTURBED               |                                      | 19. TOTAL NUMBER OF CORE BOXES |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | NO                    |                                                                            | YES                       |                                      | OTHER (SPECIFY)                |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | BACKFILLED            |                                                                            | MONITORING WELL           |                                      | OTHER (SPECIFY)                |  |
| 23. SIGNATURE OF INSPECTOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | <b>Robt M. Attkin</b> |                                                                            |                           |                                      |                                |  |
| <div style="display: flex; justify-content: space-between;"> <div> <p>LOCATION SKETCH/COMMENTS</p> <p>Witnessed by: <b>Robin Parks</b></p> </div> <div> <p>SCALE: Not to Scale</p> <p>Terms used to describe %</p> <p>Trace - &lt; 5 %</p> <p>Few - 5 - 10 %</p> <p>Little - 15 - 25 %</p> <p>Some - 20 - 35 %</p> <p>Mostly - 50 - 100 %</p> </div> </div>                                                                                                                                                                                                                                 |  |                       |                                                                            |                           |                                      |                                |  |
| <div style="position: relative;"> <div style="position: absolute; top: 10%; left: 40%;">SLD 72211</div> <div style="position: absolute; top: 25%; left: 45%;">SLD 72212</div> <div style="position: absolute; top: 40%; left: 45%;">SLD 72213</div> <div style="position: absolute; top: 55%; left: 40%;">SLD 72213<br/>(moved boring 9.5' to NW due to water)</div> <div style="position: absolute; top: 70%; left: 30%;">SLD 69453</div> <div style="position: absolute; top: 80%; left: 45%; border: 1px solid black; padding: 5px; width: 150px; text-align: center;">Bldg</div> </div> |  |                       |                                                                            |                           |                                      |                                |  |
| PROJECT <b>FUSRAP/SLDS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                       |                                                                            |                           |                                      | HOLE NO. <b>SLD 72213</b>      |  |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                       |                             |                |                |                | WELL NUMBER<br>SLD 72213 |                                                                                                                                                                                                 |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------|----------------|----------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROJECT<br>FUSRAP / SLDs               |                                                                                                                       | INSPECTOR<br>Phillip Gatter |                | DATE<br>2-2-98 |                | SHEET<br>2 of 2          |                                                                                                                                                                                                 |
| DEPTH<br>ft                            | DESCRIPTION OF MATERIALS                                                                                              | DEPTH<br>ft                 | RECOVERY<br>ft | DEPTH<br>ft    | RECOVERY<br>ft | DEPTH<br>ft              | RECOVERY<br>ft                                                                                                                                                                                  |
| SM<br>1.0                              | silty fine sand w/ few med. gravel, dense, poorly graded, lt. brn, dry, trace glass, few clay, few cinders, few slag. | 4600                        | 0.0            | RECOVERY       | 0.0-0.5        | 34                       | SLD 72213 1350                                                                                                                                                                                  |
|                                        |                                                                                                                       | 4700                        | 0.0            | 2.0            | 0.5-1.0        | 42                       |                                                                                                                                                                                                 |
|                                        |                                                                                                                       | 4700                        | 0.0            | 2.0            | 1.0-1.5        | 29                       |                                                                                                                                                                                                 |
|                                        |                                                                                                                       | 4800                        | 0.0            | 1.5-2.0        | 16             | SLD 72213 1357           |                                                                                                                                                                                                 |
| CL<br>2.0<br>3.0<br>4.0<br>5.0<br>6.0  | silty clay, stiff, med. plast., lt. brn, dry                                                                          | 4800                        | 0.0            | 1.9            | 2.0-2.5        | 13                       |                                                                                                                                                                                                 |
|                                        |                                                                                                                       | 4900                        | 0.0            | 2.0            | 2.5-3.0        | 9                        |                                                                                                                                                                                                 |
|                                        |                                                                                                                       | 4900                        | 0.0            |                | 3.0-3.5        | 13                       | SLD 72213 1410                                                                                                                                                                                  |
|                                        |                                                                                                                       | 5000                        | 0.0            |                | 3.5-3.9        | 12                       |                                                                                                                                                                                                 |
|                                        |                                                                                                                       | 4700                        | 0.0            | 1.4            | 4.0-4.5        | 12                       |                                                                                                                                                                                                 |
|                                        |                                                                                                                       | 5200                        | 0.0            | 2.0            | 4.5-5.0        | 9                        | SLD 72213 1423                                                                                                                                                                                  |
|                                        |                                                                                                                       | 5100                        | 0.0            |                | 5.0-5.4        | 9                        |                                                                                                                                                                                                 |
|                                        |                                                                                                                       | N/A                         | N/A            | no recovery    |                | 8                        |                                                                                                                                                                                                 |
| 7.0<br>8.0<br>9.0<br>10.0              | TD: 6.0' BGS<br>1-21-03<br>1415                                                                                       |                             |                |                |                |                          | Background:<br>NAI 64662<br>PID: 0.0<br>Backfilled<br>boring w/<br>3.0 bags<br>of bentonite<br>chips.<br>*Samples will<br>be counted<br>w/ gas propor-<br>tion meter.<br>See attached<br>sheet. |
|                                        |                                                                                                                       |                             |                |                |                |                          |                                                                                                                                                                                                 |
|                                        |                                                                                                                       |                             |                |                |                |                          |                                                                                                                                                                                                 |
|                                        |                                                                                                                       |                             |                |                |                |                          |                                                                                                                                                                                                 |
|                                        |                                                                                                                       |                             |                |                |                |                          |                                                                                                                                                                                                 |
|                                        |                                                                                                                       |                             |                |                |                |                          |                                                                                                                                                                                                 |
|                                        |                                                                                                                       |                             |                |                |                |                          |                                                                                                                                                                                                 |
|                                        |                                                                                                                       |                             |                |                |                |                          |                                                                                                                                                                                                 |

RADIOLOGICAL SURVEY FORM

p1051

Sample ID SLD 72213 Class 2 Samples

Dated Collected: 1-21-03

Instrument #1 Background 4662 cpm

Instrument #2 Background <sup>1-27-03</sup>  
~~4601~~ 4776

Date Analyzed: 1-27-03

Count rate of Empty Pan: Beta 65 cpm

| Sample Depth<br>(inches) | Field Scan of<br>Spoon<br>(Instrument #1) in<br>cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity<br>in Bag in<br>cpm | Gas Proportional Countrate in cpm |          |                     |
|--------------------------|-----------------------------------------------------|-------------------------------------------------------|----------------------------------|-----------------------------------|----------|---------------------|
|                          |                                                     |                                                       |                                  | Gross Beta                        | Net Beta |                     |
| 0-6                      | 4600                                                | 4416                                                  | -360                             | 91                                | 26       | * SLD 72213         |
| 6-12                     | 4700                                                | 4346                                                  | -430                             | 117                               | 52       |                     |
| 12-18                    | 4700                                                | 4563                                                  | -213                             | 93                                | 28       |                     |
| 18-24                    | 4800                                                | 4875                                                  | 99                               | 155                               | 90       | * SLD 72404         |
| 24-30                    | 4800                                                | 4994                                                  | 218                              | 132                               | 67       |                     |
| 30-36                    | 4200                                                | 5087                                                  | 311                              | 132                               | 67       |                     |
| 36-42                    | 4800                                                | 4938                                                  | 162                              | 145                               | 80       | * SLD 72213 archive |
| 42-48                    | 5000                                                | 5005                                                  | 229                              | 122                               | 57       |                     |
| 48-54                    | 4700                                                | 5058                                                  | 282                              | 136                               | 71       |                     |
| 54-60                    | 5200                                                | 4734                                                  | -42                              | 123                               | 58       | * SLD 72213 archive |
| 60-66                    | 5100                                                | 4786                                                  | -40                              | 130                               | 65       |                     |
| 66-72                    | N/A                                                 | N/A                                                   | N/A                              | N/A                               | N/A      |                     |



| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                           |  |           |                                                                            | DISTRICT <u>St. Louis</u> |  | HOLE NUMBER <u>SLD 72397</u>               |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|----------------------------------------------------------------------------|---------------------------|--|--------------------------------------------|--|
| 1. COMPANY NAME<br><u>Shaw E &amp; I</u>                                                                                                                                                                                                                                                                                                                                                                                                    |  |           | 2. DRILLING SUBCONTRACTOR<br><u>MES, Inc.</u>                              |                           |  | SHEET <u>1</u> OF <u>2</u>                 |  |
| 3. PROJECT<br><u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                                            |  |           | 4. LOCATION<br><u>PSC Metals North Tract V.P.</u>                          |                           |  |                                            |  |
| 5. NAME OF DRILLER<br><u>Chris Anthony</u>                                                                                                                                                                                                                                                                                                                                                                                                  |  |           | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>Diedrich D-120</u>            |                           |  |                                            |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Diedrich D-120</u><br><u>using 3/4" HSA and</u><br><u>3" x 2" split spoon.</u>                                                                                                                                                                                                                                                                                                  |  |           | 8. HOLE LOCATION<br><u>See location sketch</u>                             |                           |  |                                            |  |
| 9. SURFACE ELEVATION<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                          |  |           | 10. DATE STARTED<br><u>1-27-03</u>                                         |                           |  |                                            |  |
| 11. DATE COMPLETED<br><u>1-27-03</u>                                                                                                                                                                                                                                                                                                                                                                                                        |  |           | 12. OVERBURDEN THICKNESS<br><u>N/A</u>                                     |                           |  |                                            |  |
| 13. DEPTH DRILLED INTO ROCK<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                   |  |           | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |                           |  |                                            |  |
| 15. TOTAL DEPTH OF HOLE<br><u>6.0 FT BGS</u>                                                                                                                                                                                                                                                                                                                                                                                                |  |           | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |                           |  |                                            |  |
| 17. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                                    |  | DISTURBED |                                                                            | UNDISTURBED               |  | 18. TOTAL NUMBER OF CORE BOXES<br><u>0</u> |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                           |  | YES       |                                                                            | METALS                    |  | OTHER (SPECIFY)                            |  |
| 21. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                     |  | RACQUETED |                                                                            | MONITORING WELL           |  | OTHER (SPECIFY)                            |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                     |  | Yes       |                                                                            | N/A                       |  | N/A                                        |  |
| 23. SIGNATURE OF INSPECTOR<br><u>Robin Parks</u>                                                                                                                                                                                                                                                                                                                                                                                            |  |           |                                                                            |                           |  |                                            |  |
| LOCATION SKETCH/COMMENTS Witnessed by: <u>Robin Parks</u> SCALE: <u>Not to Scale</u>                                                                                                                                                                                                                                                                                                                                                        |  |           |                                                                            |                           |  |                                            |  |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><u>gate</u></p> <p><u>N</u></p> <p><u>SLD</u></p> <p><u>72212</u></p> <p><u>SLD 72397</u></p> </div> <div style="width: 45%;"> <p><u>Terms used to describe %</u></p> <p><u>Trace - &lt; 5 %</u></p> <p><u>Few - 5 - 10 %</u></p> <p><u>Little - 15 - 25 %</u></p> <p><u>Some - 20 - 35 %</u></p> <p><u>Mostly - 50 - 100 %</u></p> </div> </div> |  |           |                                                                            |                           |  |                                            |  |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p><u>SLD 72397</u></p> </div> <div style="width: 35%; border: 1px solid black; padding: 5px;"> <p><u>SLD</u></p> </div> </div>                                                                                                                                                                                                                      |  |           |                                                                            |                           |  |                                            |  |
| PROJECT <u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                  |  |           |                                                                            |                           |  | HOLE NO. <u>SLD 72397</u>                  |  |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                            |                                 |             | HOLE NUMBER<br>SLD 72397 |                                                                                                                                                                                               |
|----------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------|-------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROJECT<br>FUSRAP / SLDs               |                                                                                            | INVESTIGATOR<br>Philipp Statler |             | SHEET<br>2 of 2          |                                                                                                                                                                                               |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS                                                                   | RECOVERY<br>(%)                 | REMARKS     | REMARKS                  | REMARKS                                                                                                                                                                                       |
| 1.0                                    | silty fine sand w/ some med. gravel, very dense, poorly graded, lt. brn, dry, trace glass. | 4700<br>0.0                     | 2.0 / 2.0   | 235                      | SLD 72397<br>1050<br>1630                                                                                                                                                                     |
| 2.0                                    |                                                                                            | 4600<br>2.0                     |             | 150                      |                                                                                                                                                                                               |
| 3.0                                    |                                                                                            | 5000<br>0.0                     |             | 136                      |                                                                                                                                                                                               |
| 4.0                                    |                                                                                            | 5300<br>0.0                     |             | 102                      | SLD 72397<br>1100                                                                                                                                                                             |
| 5.0                                    |                                                                                            | 5600<br>0.0                     |             | 10                       |                                                                                                                                                                                               |
| 6.0                                    | silty clay med. stiff, med. plastic, dk brn, dry, few brick frags, trace slag.             | 4900<br>0.0                     | 1.8 / 2.0   | 8                        |                                                                                                                                                                                               |
| 7.0                                    |                                                                                            | 5200<br>0.0                     |             | 7                        | SLD 72397<br>archive<br>3.0-3.8<br>1115                                                                                                                                                       |
| 8.0                                    | few brick frags.                                                                           | 5000<br>0.0                     | no recovery | 5                        |                                                                                                                                                                                               |
| 9.0                                    |                                                                                            | 5000<br>0.0                     |             | 7                        |                                                                                                                                                                                               |
| 10.0                                   |                                                                                            | 5200<br>0.0                     | 1.7 / 2.0   | 4                        |                                                                                                                                                                                               |
| 11.0                                   |                                                                                            | 4800<br>0.0                     |             | 6                        | SLD 72397<br>archive<br>5.0-5.7<br>1130                                                                                                                                                       |
| 12.0                                   |                                                                                            | 5200<br>0.0                     | no recovery | 9                        |                                                                                                                                                                                               |
| 13.0                                   | TD: 6.0' BGs<br>1-27-03<br>115                                                             |                                 |             |                          | Background:<br>Nat: 4937<br>PID: 0.0<br>Backfilled<br>boring w/<br>3.0 bag of<br>bestonite chips.<br>*Sampler will<br>be counted w/<br>gas proportional<br>meter.<br>(See attached<br>sheet). |

RADIOLOGICAL SURVEY FORM

Sample ID SLD 72397  
Class 2

Date Sample was collected: 1-27-03

Date Sample was analyzed: 1-30-03

Instrument #1 Background 4937 cpm

Instrument #2 Background 4667 cpm

Count rate of Empty Pan: Beta 135 cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 0-6                      | 4900                                                      | -37                               | <del>4367</del><br>4320                               | -437                          | 159                                | 24       |
| 6-12                     | 4600                                                      | -337                              | 4367                                                  | -300                          | 175                                | 40       |
| 12-18                    | 5000                                                      | 63                                | 4549                                                  | -118                          | 205                                | 70       |
| 18-24                    | 5300                                                      | 363                               | 4670                                                  | 3                             | 189                                | 54       |
| 24-30                    | 5000                                                      | 63                                | 4567                                                  | -100                          | 166                                | 31       |
| 30-36                    | 4900                                                      | -37                               | 4751                                                  | 84                            | 231                                | 96       |
| 36-42                    | 5800                                                      | 863                               | 4962                                                  | 295                           | 220                                | 85       |
| 42-48                    | N/A                                                       | N/A                               | N/A                                                   | N/A                           | N/A                                | N/A      |
| 48-54                    | 5000                                                      | 63                                | 4675                                                  | 8                             | 211                                | 76       |
| 54-60                    | 5200                                                      | 263                               | 4798                                                  | 131                           | 230                                | 95       |
| 60-66                    | 4800                                                      | -137                              | 4910                                                  | 243                           | 232                                | 97       |
| 66-72                    | N/A                                                       | N/A                               | N/A                                                   | N/A                           | N/A                                | N/A      |

SLD 72397

SLD 72405

SLD 72397 Archive

SLD 72397 Archive

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  | DISTRICT <b>St. Louis</b>                                                  |  | HOLE NUMBER <b>SLD 72398</b> |                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------------------------------------------------------|--|------------------------------|---------------------------|
| 1. COMPANY NAME<br><b>Shaw E &amp; I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  | 2. DRILLING SUBCONTRACTOR<br><b>MES, Inc.</b>                              |  | SHEET <b>1</b> OF <b>2</b>   |                           |
| 3. PROJECT<br><b>FUSRAP/SLDS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  | 4. LOCATION<br><b>PSC Metals North Tract V.P.</b>                          |  |                              |                           |
| 5. NAME OF DRILLER<br><b>Chris Anthony</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><b>Diedrich D-120</b>            |  |                              |                           |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><b>Diedrich D-120<br/>using 3/4" HSA and<br/>3" x 3" split spear.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  | 8. HOLE LOCATION<br><b>See location sketch</b>                             |  |                              |                           |
| 9. SURFACE ELEVATION<br><b>N/A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  | 10. DATE STARTED<br><b>1-22-03</b>                                         |  |                              |                           |
| 11. DATE COMPLETED<br><b>1-22-03</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  | 12. OVERBURDEN THICKNESS<br><b>N/A</b>                                     |  |                              |                           |
| 13. DEPTH DRILLED INTO ROCK<br><b>N/A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br><b>N/A</b>                            |  |                              |                           |
| 14. TOTAL DEPTH OF HOLE<br><b>7.0 FT BGS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><b>N/A</b> |  |                              |                           |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><b>N/A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  | 18. GEOTECHNICAL SAMPLES                                                   |  |                              |                           |
| 19. TOTAL NUMBER OF CORE BOXES<br><b>0</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  | 20. SAMPLES FOR CHEMICAL ANALYSIS                                          |  |                              |                           |
| 21. TOTAL CORE RECOVERY<br><b>0 %</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  | 22. DISPOSITION OF HOLE                                                    |  |                              |                           |
| 23. SIGNATURE OF INSPECTOR<br><i>[Signature]</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  | 24. LOCATION SKETCH/COMMENTS                                               |  |                              |                           |
| <div style="display: flex; justify-content: space-between;"> <span>Witnessed by: <b>Robin Parks</b></span> <span>SCALE: Not to Scale</span> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> Terms used to describe %<br/> Trace - &lt; 5 %<br/> Few - 5 - 10 %<br/> Little - 15 - 25 %<br/> Some - 20 - 35 %<br/> Mostly - 50 - 100 % </div> <div style="margin-top: 20px;"> <p style="text-align: center;"><b>HTZ 69452</b></p> <p style="text-align: center;"><b>SLD 72398</b></p> <div style="border: 1px solid black; width: 150px; height: 100px; margin: 10px auto; position: relative;"> <div style="position: absolute; top: 0; right: 0; text-align: right; padding: 5px;"> <b>SLD 72398</b><br/> <b>Concrete</b><br/> <b>Scale</b><br/> <b>1 foot</b><br/> <b>10 feet</b><br/> <b>NE</b> </div> </div> </div> |  |  |                                                                            |  |                              |                           |
| PROJECT <b>FUSRAP/SLDS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |                                                                            |  |                              | HOLE NO. <b>SLD 72398</b> |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                  |                    |                         |                                        |         |                                                                                                                                                  | SLD 72398 |
|----------------------------------------|----------------------------------------------------------------------------------|--------------------|-------------------------|----------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| PROJECT                                |                                                                                  | INSPECTOR          |                         | SHEET                                  |         | SHEETS                                                                                                                                           |           |
| FUSRAP/SLP                             |                                                                                  | Phillip Statler    |                         | 2                                      |         | 2                                                                                                                                                |           |
| DEPTH                                  | DESCRIPTION OF STRATIGRAPHY                                                      | FIELD PENETROMETER | LABORATORY PENETROMETER | WATER CONTENT                          | REMARKS |                                                                                                                                                  |           |
| COVER                                  | Concrete cover                                                                   | SP00<br>0.0        |                         | SLD<br>72398<br>cover<br>1-2-03<br>P10 |         | drilled through concrete cover                                                                                                                   |           |
| 1                                      | Silty fine sand w/ some med. to coarse gravel, loose, poorly graded, H, brk, dry | SP00<br>0.0        | 1.6<br>2.0              | SLD<br>72398<br>0850                   | 9       | SLD<br>72398<br>0850                                                                                                                             | P2        |
| 2                                      |                                                                                  | SP00<br>0.0        |                         | SLD<br>72398<br>0850                   | 11      | SLD<br>72398<br>0853                                                                                                                             |           |
|                                        |                                                                                  | 4500<br>0.0        |                         | SLD<br>72398<br>0853                   | 10      | SLD<br>72398<br>0853                                                                                                                             |           |
| 3                                      | SM<br>few clay, few brick frags, trace cinder                                    | SP00<br>0.0        | 1.7<br>2.0              | SLD<br>72398<br>1030                   | 9       | SLD<br>72398<br>1035                                                                                                                             | (1035)    |
| 4                                      |                                                                                  | SP00<br>0.0        |                         | SLD<br>72398<br>1035                   | 11      | SLD<br>72398<br>1035                                                                                                                             |           |
|                                        |                                                                                  | SP00<br>0.0        |                         | SLD<br>72398<br>1035                   | 13      | SLD<br>72398<br>1035                                                                                                                             |           |
| 5                                      | trace concrete frag                                                              | SP00<br>0.0        | no recovery             | SLD<br>72398<br>1035                   | 10      |                                                                                                                                                  |           |
| 6                                      | CL<br>silty clay, med. stiff, med. plast, dk. brn, few brick frags, trace slag   | SP00<br>0.0        | 1.8<br>2.0              | SLD<br>72398<br>1041                   | 3       | SLD<br>72398<br>1041                                                                                                                             |           |
|                                        |                                                                                  | SP00<br>0.0        |                         | SLD<br>72398<br>1041                   | 6       | SLD<br>72398<br>1041                                                                                                                             |           |
|                                        |                                                                                  | SP00<br>0.0        |                         | SLD<br>72398<br>1041                   | 6       | SLD<br>72398<br>1041                                                                                                                             |           |
| 7                                      |                                                                                  | SP00<br>0.0        |                         | SLD<br>72398<br>1041                   | 4       |                                                                                                                                                  |           |
| TD: 7.0' BGS<br>1-22-03<br>1030        |                                                                                  |                    |                         |                                        |         | Backgrounds<br>NAT: 4206<br>PTD: 0.0<br>Backfill had boring w/ 3.0 bags of bentonite chips<br>*Sampler will be counted as per proportional water |           |

RADIOLOGICAL SURVEY FORM

plot 2

Sample ID SLD 72398  
Class 2

Date Sample was collected: 1-22-03

Date Sample was analyzed: 1-27-03

Instrument #1 Background 4226cpm

Instrument #2 Background 4498cpm

Count rate of Empty Pan: Beta 82cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 0-6                      | cover                                                     | N/A                               | N/A                                                   | N/A                           | N/A                                | N/A      |
| 6-12                     | cover                                                     | N/A                               | N/A                                                   | N/A                           | N/A                                | N/A      |
| 12-18                    | 5400                                                      | 1174                              | 4305                                                  | -193                          | 91                                 | 9        |
| 18-24                    | 5200                                                      | 974                               | 4187                                                  | -311                          | 101                                | 19       |
| 24-30                    | 4600                                                      | 374                               | 4433                                                  | -65                           | 115                                | 33       |
| 30-36                    | N/A                                                       | N/A                               | N/A                                                   | N/A                           | N/A                                | N/A      |
| 36-42                    | 5000                                                      | 774                               | 4585                                                  | 87                            | 102                                | 20       |
| 42-48                    | 5500                                                      | 1274                              | 4840                                                  | 342                           | 148                                | 66       |
| 48-54                    | 5000                                                      | 774                               | 4657                                                  | 159                           | 128                                | 46       |
| 54-60                    | N/A                                                       | N/A                               | N/A                                                   | N/A                           | N/A                                | N/A      |
| 60-66                    | 5100                                                      | 874                               | 4804                                                  | 306                           | 164                                | 82       |
| 66-72                    | 5000                                                      | 774                               | 4502                                                  | 4                             | 149                                | 167      |

SLD 72398

SLD 72406

Archive Sample  
SLD 72398

RADIOLOGICAL SURVEY FORM

Sample ID SLD72398

Date Sample was collected: 1-22-03

Date Sample was analyzed: 1-27-03

Instrument #1 Background 4226

Instrument #2 Background 4498

Count rate of Empty Pan: Beta 82 cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 72-78<br><del>0-6</del>  | 5500                                                      | 1274                              | 4689                                                  | 191                           | 124                                | 42       |
| 78-82<br>6-12            | N/A                                                       | N/A                               | N/A                                                   | N/A                           | N/A                                | N/A      |
| 12-18                    |                                                           |                                   |                                                       |                               |                                    |          |
| 18-24                    |                                                           |                                   |                                                       |                               |                                    |          |
| 24-30                    |                                                           |                                   |                                                       |                               |                                    |          |
| 30-36                    |                                                           |                                   |                                                       |                               |                                    |          |
| 36-42                    |                                                           |                                   |                                                       |                               |                                    |          |
| 42-48                    |                                                           |                                   | N                                                     | A                             |                                    |          |
| 48-54                    |                                                           |                                   |                                                       |                               |                                    |          |
| 54-60                    |                                                           |                                   |                                                       |                               |                                    |          |
| 60-66                    |                                                           |                                   |                                                       |                               |                                    |          |
| 66-72                    |                                                           |                                   |                                                       |                               |                                    |          |

Archive Sample  
SLD72398

| HTRW DRILLING LOG                                                                                                              |  |                                               |  | DISTRICT <b>St. Louis</b>                                                                                                                                  |  | HOLE NUMBER<br><b>SLD 72400</b> |  |
|--------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------|--|
| 1. COMPANY NAME<br><b>Shaw E &amp; I</b>                                                                                       |  | 2. DRILLING SUBCONTRACTOR<br><b>MES, Inc.</b> |  |                                                                                                                                                            |  | SHEET <b>1</b> OF <b>2</b>      |  |
| 3. PROJECT<br><b>FUSRAP/SLDS</b>                                                                                               |  |                                               |  | 4. LOCATION<br><b>PSC Metals North Tract V.P.</b>                                                                                                          |  |                                 |  |
| 5. NAME OF DRILLER<br><b>Chris Anthony</b>                                                                                     |  |                                               |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><b>Diedrich D-120</b>                                                                                            |  |                                 |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><b>Diedrich D-120<br/>using 3/4" HSA and<br/>3" x 2" split spoon.</b> |  |                                               |  | 8. HOLE LOCATION<br><b>See location sketch</b>                                                                                                             |  |                                 |  |
| 9. SURFACE ELEVATION<br><b>N/A</b>                                                                                             |  |                                               |  | 10. DATE STARTED <b>1-28-03</b>                                                                                                                            |  |                                 |  |
| 11. DATE COMPLETED<br><b>1-28-03</b>                                                                                           |  |                                               |  | 12. OVERBURDEN THICKNESS<br><b>N/A</b>                                                                                                                     |  |                                 |  |
| 13. DEPTH DRILLED INTO ROCK<br><b>N/A</b>                                                                                      |  |                                               |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><b>N/A</b>                                                                                 |  |                                 |  |
| 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><b>N/A</b>                                                                     |  |                                               |  | 16. TOTAL DEPTH OF HOLE<br><b>6.0 FT BGS</b>                                                                                                               |  |                                 |  |
| 17. GEOTECHNICAL SAMPLES                                                                                                       |  | 18. DISTURBED                                 |  | 19. UNDISTURBED                                                                                                                                            |  | 20. TOTAL NUMBER OF CORE BOXES  |  |
| 21. SAMPLES FOR CHEMICAL ANALYSIS                                                                                              |  | 22. VUC                                       |  | 23. METALS                                                                                                                                                 |  | 24. OTHER (SPECIFY)             |  |
| 25. DISPOSITION OF HOLE                                                                                                        |  | 26. BACKFILLED                                |  | 27. MONITORING WELL                                                                                                                                        |  | 28. OTHER (SPECIFY)             |  |
| 29. SIGNATURE OF INSPECTOR<br><i>[Signature]</i>                                                                               |  | 30. Yes                                       |  | 31. N/A                                                                                                                                                    |  | 32. N/A                         |  |
| LOCATION SKETCH/COMMENTS                                                                                                       |  |                                               |  | WITNESSED BY: <b>Susan Adams</b>                                                                                                                           |  |                                 |  |
| <div style="text-align: center;"> </div>                                                                                       |  |                                               |  | <b>SCALE: Not to Scale</b><br>Terms used to describe %<br>Trace - < 5 %<br>Few - 5 - 10 %<br>Little - 15 - 25 %<br>Some - 20 - 35 %<br>Mostly - 50 - 100 % |  |                                 |  |
| PROJECT <b>FUSRAP/SLDS</b>                                                                                                     |  |                                               |  | HOLE NO. <b>SLD 72400</b>                                                                                                                                  |  |                                 |  |



| HTRW DRILLING LOG (CONTINUATION SHEET) |                          |                              |                 |                 |                 | HOLE NUMBER<br>SLD 72400 |                                         |
|----------------------------------------|--------------------------|------------------------------|-----------------|-----------------|-----------------|--------------------------|-----------------------------------------|
| PROJECT<br>FUSRAP / SLDs               |                          | INSPECTOR<br>Phillip Statler |                 | SHEET<br>2 of 2 |                 | SHEET 3                  |                                         |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS | RECOVERY<br>(%)              | RECOVERY<br>(%) | RECOVERY<br>(%) | RECOVERY<br>(%) | RECOVERY<br>(%)          | RECOVERY<br>(%)                         |
| 0.0                                    | SM                       | 4700                         | 0.0             | RECOVERY        | 0.0-1.5         | 75                       | SLD 72400<br>1350                       |
| 1.0                                    | SM                       | 4700                         | 0.0             | 1.8 / 2.0       | 1.5-1.8         | 129                      |                                         |
| 2.0                                    | SM                       | 5700                         | 0.0             |                 | 1.0-1.8         | 55                       | SLD 72400<br>1355                       |
| 3.0                                    | N/A                      | 4700                         | 0.0             | no recovery     | 1.8-1.9         | 24                       |                                         |
| 4.0                                    | N/A                      | N/A                          | N/A             | N/A             |                 | 14                       |                                         |
| 5.0                                    | N/A                      | N/A                          | N/A             | N/A             |                 | 15                       |                                         |
| 6.0                                    | N/A                      | N/A                          | N/A             | N/A             |                 | 10                       |                                         |
| 7.0                                    | N/A                      | N/A                          | N/A             | N/A             |                 | 19                       |                                         |
| 8.0                                    | SM                       | 4800                         | 0.0             | 1.8 / 2.0       | 4.0-4.5         | 5                        |                                         |
| 9.0                                    | SM                       | 4800                         | 0.0             |                 | 4.5-5.0         | 5                        |                                         |
| 10.0                                   | SM                       | 5700                         | 0.0             |                 | 5.0-5.5         | 7                        | SLD 72400<br>archive<br>for SLD<br>1415 |
| 11.0                                   | SM                       | 9900                         | 0.0             | no recovery     | 5.5-6.0         | 10                       |                                         |
| 12.0                                   | TD: 6.0' BGs             |                              |                 |                 |                 |                          | Backgrounds                             |
| 13.0                                   | 1-28-03                  |                              |                 |                 |                 |                          | NaI: 5p00                               |
| 14.0                                   | 1410                     |                              |                 |                 |                 |                          | PID: 0.0                                |
| 15.0                                   |                          |                              |                 |                 |                 |                          | Backfilled                              |
| 16.0                                   |                          |                              |                 |                 |                 |                          | boring w/ 3.0                           |
| 17.0                                   |                          |                              |                 |                 |                 |                          | bags of bentonite chips.                |
| 18.0                                   |                          |                              |                 |                 |                 |                          | * Samples                               |
| 19.0                                   |                          |                              |                 |                 |                 |                          | will be counted                         |
| 20.0                                   |                          |                              |                 |                 |                 |                          | using                                   |
| 21.0                                   |                          |                              |                 |                 |                 |                          | gas proportional                        |
| 22.0                                   |                          |                              |                 |                 |                 |                          | meter. (see                             |
| 23.0                                   |                          |                              |                 |                 |                 |                          | attached sheet)                         |

RADIOLOGICAL SURVEY FORM

Sample ID SLD 72400 C2

Date Sample was collected: 1-28-03

Date Sample was analyzed: 2-19-03

Instrument #1 Background 5000 cpm

Instrument #2 Background 4723 cpm

Count rate of Empty Pan: Beta 95 cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 0-6                      | 4700                                                      | -300                              | 4188                                                  | -535                          | 105                                | 10       |
| 6-12                     | 4700                                                      | -300                              | 4574                                                  | -149                          | 103                                | 8        |
| 12-18                    | 5100                                                      | 100                               | 4657                                                  | -66                           | 134                                | 39       |
| 18-24                    | N/A                                                       | N/A                               | N/A                                                   | N/A                           | N/A                                | N/A      |
| 24-30                    | N/A                                                       | N/A                               | N/A                                                   | N/A                           | N/A                                | N/A      |
| 30-36                    | N/A                                                       | N/A                               | N/A                                                   | N/A                           | N/A                                | N/A      |
| 36-42                    | N/A                                                       | N/A                               | N/A                                                   | N/A                           | N/A                                | N/A      |
| 42-48                    | N/A                                                       | N/A                               | N/A                                                   | N/A                           | N/A                                | N/A      |
| 48-54                    | 4800                                                      | -200                              | 4864                                                  | 141                           | 149                                | 54       |
| 54-60                    | 4900                                                      | -100                              | 4838                                                  | 115                           | 145                                | 50       |
| 60-66                    | 5400                                                      | 400                               | 4741                                                  | 18                            | 146                                | 51       |
| 66-72                    | N/A                                                       | N/A                               | N/A                                                   | N/A                           | N/A                                | N/A      |

SLD 72400

SLD 72408

SLD 72400  
archive

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |  | DISTRICT                                                            |  | HOLE NUMBER                    |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|---------------------------------------------------------------------|--|--------------------------------|--|
| 1. COMPANY NAME<br>Shaw E & I                                                                                                                                                                                                                                                                                                                                                                                         |  |            |  | 2. DRILLING SUBCONTRACTOR<br>MES, Inc.                              |  | SLD 72400B                     |  |
| 3. PROJECT<br>FUSRAP/SLDS                                                                                                                                                                                                                                                                                                                                                                                             |  |            |  | 4. LOCATION<br>PSC Metals North Tract V.P.                          |  | SHEET 1 of 2                   |  |
| 5. NAME OF DRILLER<br>Chris Anthony                                                                                                                                                                                                                                                                                                                                                                                   |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120            |  |                                |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using 3" HSA and<br>3" x 2" split spear.                                                                                                                                                                                                                                                                                                   |  |            |  | 8. HOLE LOCATION<br>See location sketch                             |  |                                |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |  | 9. SURFACE ELEVATION<br>N/A                                         |  |                                |  |
| PID 1-2A-03 NAI LUD 149945<br>to 100/100 Cal. Date: 9-30-03 Bkg: 5000                                                                                                                                                                                                                                                                                                                                                 |  |            |  | 10. DATE STARTED<br>1-28-03                                         |  | 11. DATE COMPLETED<br>1-28-03  |  |
| 12. OVERBURDEN THICKNESS<br>N/A                                                                                                                                                                                                                                                                                                                                                                                       |  |            |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br>N/A                            |  |                                |  |
| 13. DEPTH DRILLED INTO ROCK<br>N/A                                                                                                                                                                                                                                                                                                                                                                                    |  |            |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A |  |                                |  |
| 14. TOTAL DEPTH OF HOLE<br>4.0 FT BGS                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                 |  |                                |  |
| 18. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                              |  | DISTURBED  |  | UNDISTURBED                                                         |  | 19. TOTAL NUMBER OF CORE BOXES |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                     |  | YES        |  | NO                                                                  |  | 21. TOTAL CORE RECOVERY        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                       |  | YES        |  | NO                                                                  |  | %                              |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                               |  | BACKFILLED |  | MONITORING WELL                                                     |  | 23. SIGNATURE OF INSPECTOR     |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                       |  | Yes        |  | N/A                                                                 |  | Blondy M. P. [Signature]       |  |
| LOCATION SKETCH/COMMENTS Witnessed by: Susan Adams SCALE: Not to Scale                                                                                                                                                                                                                                                                                                                                                |  |            |  |                                                                     |  |                                |  |
| <p> </p> <p>           Terms used to describe %<br/>           Trace - &lt; 5 %<br/>           Few - 5 - 10 %<br/>           Little - 15 - 25 %<br/>           Some - 20 - 35 %<br/>           Mostly - 50 - 100 %         </p> <p>           SLD 72399         </p> <p>           SLD 72400B<br/>           (moved boring SLD 72400<br/>           4' to W due to poor recovery in 20-40' BGS interval)         </p> |  |            |  |                                                                     |  |                                |  |
| PROJECT<br>FUSRAP/SLDS                                                                                                                                                                                                                                                                                                                                                                                                |  |            |  |                                                                     |  | HOLE NO.<br>SLD 72400B         |  |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                            |                          |               |                   |               | SLO 72400B                                                                                                                                                                         |  |
|----------------------------------------|--------------------------------------------------------------------------------------------|--------------------------|---------------|-------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| PROJECT FUSRAP/SLDS                    |                                                                                            | INSPECTOR Philip Statler |               | SHEET 2 of 2      |               | SLO 72400B                                                                                                                                                                         |  |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                                   | WATER CONTENT (%)        | SHRINKAGE (%) | WATER CONTENT (%) | SHRINKAGE (%) | REMARKS                                                                                                                                                                            |  |
| 1.0                                    | See SLO 72400 for details                                                                  | N/A                      | N/A           | N/A               | N/A           |                                                                                                                                                                                    |  |
| 2.0                                    | Silty clay, med. stiff, med. plastic, lt. brn., dry, trace brick frag.                     | 4500 0.0                 | 1.5           | 20-25 1445        | 10            |                                                                                                                                                                                    |  |
| 3.0                                    | Silty fine sand w/ some med. gravel, graded, lt. brn. to tan, dry, some limestone cobbles. | 4300 0.0                 | 2.0           | 25-30 1447        | 25            |                                                                                                                                                                                    |  |
| 4.0                                    |                                                                                            | 4800 0.0                 | no recovery   | 25-30 1450        | 15            | SLO 72400B archive 3.0-4.0 (1450)                                                                                                                                                  |  |
| 5.0                                    | TD: 4.0' BGS<br>1-28-03<br>1445                                                            |                          |               |                   |               | Background:<br>Nat: 5,000<br>PID: 0.0<br>Backfilled boring w/ 2.0 bags of bentonite chips each.<br>* Samples will be counted using gas proportional meter.<br>(See attached sheet) |  |
| 6.0                                    |                                                                                            |                          |               |                   |               |                                                                                                                                                                                    |  |
| 7.0                                    |                                                                                            |                          |               |                   |               |                                                                                                                                                                                    |  |
| 8.0                                    |                                                                                            |                          |               |                   |               |                                                                                                                                                                                    |  |
| 9.0                                    |                                                                                            |                          |               |                   |               |                                                                                                                                                                                    |  |
| 10.0                                   |                                                                                            |                          |               |                   |               |                                                                                                                                                                                    |  |

RADIOLOGICAL SURVEY FORM

Sample ID SLD 72400B c2  
Susan Adams

Date Sample was collected: 1-28-03

Date Sample was analyzed: 2-19-03

Instrument #1 Background 5000 cpm

Instrument #2 Background 4723 cpm

Count rate of Empty Pan: Beta 95 cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 0-6                      |                                                           |                                   |                                                       |                               |                                    |          |
| 6-12                     |                                                           |                                   |                                                       |                               |                                    |          |
| 12-18                    |                                                           |                                   |                                                       |                               |                                    |          |
| 18-24                    |                                                           |                                   |                                                       |                               |                                    |          |
| 24-30                    | 4500                                                      | -500                              | 4879                                                  | 156                           | 129                                | 34       |
| 30-36                    | 4800                                                      | -200                              | 4905                                                  | 182                           | 125                                | 30       |
| 36-42                    | 4800                                                      | -200                              | 4636                                                  | -87                           | 119                                | 24       |
| 42-48                    | N/A                                                       | N/A                               | N/A                                                   | N/A                           | N/A                                | N/A      |
| 48-54                    |                                                           |                                   |                                                       |                               |                                    |          |
| 54-60                    |                                                           |                                   |                                                       |                               |                                    |          |
| 60-66                    |                                                           |                                   |                                                       |                               |                                    |          |
| 66-72                    |                                                           |                                   |                                                       |                               |                                    |          |

SLD724003  
archive

#

| HTRW DRILLING LOG |                                                                                                                           | CONTINUATION SHEET        |          | SHEET 2 OF 2 |      |
|-------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------------|----------|--------------|------|
| FUSRAP/SLOS       |                                                                                                                           | Inspector Phillip Statler |          | SLOT 72413   |      |
| DEPTH (ft)        | DESCRIPTION OF MATERIALS                                                                                                  | REMARKS                   | RECOVERY | SLIP         | SLIP |
| 1.0               | silty fine sand w/<br>low med to coarse<br>gravel, loose, poorly<br>graded, dk. brn. dry,<br>few cinders and<br>few slag. | 4400                      | 0.0      | 72413        | 7    |
| 2.0               |                                                                                                                           | 5100                      | 0.0      | 72413        | 8    |
| 3.0               |                                                                                                                           | 4400                      | 0.0      | 72413        | 6    |
| 4.0               |                                                                                                                           | 4400                      | 0.0      | 72413        | 5    |
| 5.0               |                                                                                                                           | 5300                      | 0.0      | 72413        | 3    |
| 6.0               | silty clay, med. stiff,<br>mod. plastic, H. brn.<br>to gray, dry, trace<br>cinders, trace med.<br>gravel.                 | 5300                      | 0.0      | 72413        | 3    |
| 7.0               |                                                                                                                           | 5300                      | 0.0      | 72413        | 3    |
| 8.0               |                                                                                                                           | 5000                      | 0.0      | 72413        | 3    |
| 9.0               |                                                                                                                           | 4400                      | 0.0      | 72413        | 4    |
| 10.0              |                                                                                                                           | 5300                      | 0.0      | 72413        | 3    |
| 11.0              | cinders, med gravel<br>absent                                                                                             | 5400                      | 0.0      | 72413        | 4    |
| 12.0              |                                                                                                                           | 5400                      | 0.0      | 72413        | 4    |
| 13.0              |                                                                                                                           | 5400                      | 0.0      | 72413        | 4    |
| 14.0              |                                                                                                                           | 5400                      | 0.0      | 72413        | 4    |
| 15.0              |                                                                                                                           | 5400                      | 0.0      | 72413        | 7    |
| 16.0              | TD: 6.0' BGS                                                                                                              |                           |          |              |      |
| 17.0              | 11-20-02                                                                                                                  |                           |          |              |      |
| 18.0              | 1650                                                                                                                      |                           |          |              |      |
| 19.0              |                                                                                                                           |                           |          |              |      |
| 20.0              |                                                                                                                           |                           |          |              |      |
| 21.0              |                                                                                                                           |                           |          |              |      |
| 22.0              |                                                                                                                           |                           |          |              |      |
| 23.0              |                                                                                                                           |                           |          |              |      |
| 24.0              |                                                                                                                           |                           |          |              |      |
| 25.0              |                                                                                                                           |                           |          |              |      |
| 26.0              |                                                                                                                           |                           |          |              |      |
| 27.0              |                                                                                                                           |                           |          |              |      |
| 28.0              |                                                                                                                           |                           |          |              |      |
| 29.0              |                                                                                                                           |                           |          |              |      |
| 30.0              |                                                                                                                           |                           |          |              |      |

Back ground  
Nat: 4000  
PTs: 0.0  
Backfilled  
boring w/  
3.0 bags of  
bentonite  
chips.

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                               |  | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER <u>SLD 72414</u>                      |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------|--|----------------------------------------------------------------------------|--|---------------------------------------------------|--|
| 1. COMPANY NAME<br><u>Shaw E &amp; I</u>                                                                                                                                                                                                                                                                                                                                                                                     |  | 2. DRILLING SUBCONTRACTOR<br><u>MES, Inc.</u> |  | SHEET <u>1</u> OF <u>2</u>                                                 |  | SHEETS                                            |  |
| 3. PROJECT<br><u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                             |  |                                               |  | 4. LOCATION<br><u>PSC Metals North Tract V.P.</u>                          |  |                                                   |  |
| 5. NAME OF DRILLER<br><u>Chris Anthony</u>                                                                                                                                                                                                                                                                                                                                                                                   |  |                                               |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>Diedrich D-120</u>            |  |                                                   |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Diedrich D-120</u><br><u>using 4 1/4" HSA and</u><br><u>3" x 2" split spoon.</u>                                                                                                                                                                                                                                                                                 |  |                                               |  | 8. HOLE LOCATION<br><u>See location sketch</u>                             |  |                                                   |  |
| 9. SURFACE ELEVATION<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                           |  |                                               |  | 10. DATE STARTED<br><u>12-11-02</u>                                        |  |                                                   |  |
| 11. DATE COMPLETED<br><u>12-11-02</u>                                                                                                                                                                                                                                                                                                                                                                                        |  |                                               |  | 12. OVERBURDEN THICKNESS<br><u>N/A</u>                                     |  |                                                   |  |
| 13. DEPTH DRILLED INTO ROCK<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                    |  |                                               |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                   |  |
| 15. TOTAL DEPTH OF HOLE<br><u>6.0 FT BGS</u>                                                                                                                                                                                                                                                                                                                                                                                 |  |                                               |  | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                                   |  |
| 17. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                     |  | 18. DISTURBED                                 |  | 19. UNDISTURBED                                                            |  | 20. TOTAL NUMBER OF CORE BOXES                    |  |
| 21. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                            |  | 22. VOC                                       |  | 23. METALS                                                                 |  | 24. OTHER (SPECIFY)                               |  |
| 25. RAD                                                                                                                                                                                                                                                                                                                                                                                                                      |  | 26. OTHER (SPECIFY)                           |  | 27. OTHER (SPECIFY)                                                        |  | 28. TOTAL CORE RECOVERY %                         |  |
| 29. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                      |  | 30. RECORDED                                  |  | 31. MONITORING WELL                                                        |  | 32. OTHER (SPECIFY)                               |  |
| 33. Yes                                                                                                                                                                                                                                                                                                                                                                                                                      |  | 34. N/A                                       |  | 35. N/A                                                                    |  | 36. SIGNATURE OF INSPECTOR<br><u>Keith Enders</u> |  |
| <div style="display: flex; justify-content: space-between;"> <div> <p>LOCATION SKETCH/COMMENTS</p> <p>Witnessed by: <u>Keith Enders</u></p> </div> <div> <p>SCALE: <u>Not to Scale</u></p> <p>Terms used to describe %</p> <p>Trace - <math>\leq 5\%</math></p> <p>Few - <math>5-10\%</math></p> <p>Little - <math>15-25\%</math></p> <p>Some - <math>20-35\%</math></p> <p>Mostly - <math>50-100\%</math></p> </div> </div> |  |                                               |  |                                                                            |  |                                                   |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                               |  |                                                                            |  |                                                   |  |
| PROJECT <u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                               |  |                                                                            |  | HOLE NO. <u>SLD 72414</u>                         |  |



| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                |             |                             |                                  |                     | HOLE NUMBER<br>SLD 72414                                                                              |  |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------|-----------------------------|----------------------------------|---------------------|-------------------------------------------------------------------------------------------------------|--|
| PROJECT<br>FUSRAP / SLDs               |                                                                                                                |             | INSPECTOR<br>Philip Statter |                                  |                     | SHEET<br>2 of 2                                                                                       |  |
| DEPTH<br>ft                            | DESCRIPTION OF MATERIALS                                                                                       | TIME<br>min | RECOVERY<br>%               | SLD<br>72414<br>12-11-02<br>1330 | BLOW COUNT<br>blows | REMARKS                                                                                               |  |
| CL 1.0                                 | silty clay w/ few med gravel, med. stiff to stiff, med. plastic, dk brn. to blk, dry, some cinders, some slag. | 5500<br>0.0 | 2.0                         | SLD 72414 12-11-02 1330          | 10                  |                                                                                                       |  |
|                                        |                                                                                                                | 5500<br>0.0 | 2.0                         | SLD 72414 1330                   | 10                  |                                                                                                       |  |
|                                        |                                                                                                                | 4900<br>0.0 |                             |                                  | 9                   |                                                                                                       |  |
|                                        |                                                                                                                | 5100<br>0.0 |                             |                                  | 8                   |                                                                                                       |  |
| SM 2.0                                 | silty fine sand w/ few med. gravel, loose, poorly graded, dk. brn. to blk, dry, some cinders, some slag.       | 4800<br>0.0 | 2.0                         |                                  | 6                   |                                                                                                       |  |
|                                        |                                                                                                                | 5300<br>0.0 | 2.0                         |                                  | 6                   |                                                                                                       |  |
|                                        |                                                                                                                | 5700<br>0.0 |                             |                                  | 4                   |                                                                                                       |  |
|                                        |                                                                                                                | 5800<br>0.0 |                             | SLD 72414 0500hrs 1800           | 2                   | archive sample from 3.5-4.0' BGS                                                                      |  |
|                                        |                                                                                                                | 4700<br>0.0 | 1.9                         |                                  | 3                   |                                                                                                       |  |
| CL 5.0                                 | silty clay, soft, med. plastic, 14. brn. moist, some very fine sand                                            | 4700<br>0.0 | 2.0                         | SLD 72414 0500hrs 1330           | 2                   | archive sample from 4.5-5.0' BGS.                                                                     |  |
|                                        |                                                                                                                | 4600<br>0.0 |                             |                                  | 4                   |                                                                                                       |  |
|                                        |                                                                                                                | 4600<br>0.0 |                             |                                  | 3                   |                                                                                                       |  |
| TD: 6.0' BGS                           |                                                                                                                |             |                             |                                  |                     | Backgrounds:<br>Nat. 4500<br>PTD-0.0<br>Backfilled<br>boring w/<br>3.0 bags of<br>bentonite<br>chips. |  |
| 12-11-02                               |                                                                                                                |             |                             |                                  |                     |                                                                                                       |  |
| 1345                                   |                                                                                                                |             |                             |                                  |                     |                                                                                                       |  |

| HTRW DRILLING LOG                                                                                                                                  |  |                                     |  | City: <u>St. Louis</u>                                                                                                                                                                                                                               |  | Hole Number: <u>SLD 72415</u>                 |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------|--|
| 1. COMPANY NAME<br><u>Shaw E &amp; I</u>                                                                                                           |  |                                     |  | 2. DRILLING CONTRACTOR<br><u>MES, Inc.</u>                                                                                                                                                                                                           |  | SHEET <u>1</u> OF <u>2</u>                    |  |
| 3. PROJECT<br><u>FUSRAP / SLDS</u>                                                                                                                 |  |                                     |  | 4. LOCATION<br><u>PSC Metals North Tract V.P.</u>                                                                                                                                                                                                    |  |                                               |  |
| 5. NAME OF DRILLER<br><u>Chris Anthony</u>                                                                                                         |  |                                     |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>Diedrich D-120</u>                                                                                                                                                                                      |  |                                               |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Diedrich D-120</u><br><u>using 4 1/4 HSA and</u><br><u>3" x 3' split spoon</u>         |  |                                     |  | 8. HOLE LOCATION<br><u>See location sketch</u>                                                                                                                                                                                                       |  |                                               |  |
| 9. SURFACE ELEVATION<br><u>N/A</u>                                                                                                                 |  |                                     |  | 10. DATE STARTED<br><u>11-18-02</u>                                                                                                                                                                                                                  |  |                                               |  |
| 11. DATE COMPLETED<br><u>11-18-02</u>                                                                                                              |  |                                     |  | 12. OVERBURDEN THICKNESS<br><u>N/A</u>                                                                                                                                                                                                               |  |                                               |  |
| 13. DEPTH DRILLED INTO ROCK<br><u>N/A</u>                                                                                                          |  |                                     |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u>                                                                                                                                                                           |  |                                               |  |
| 15. TOTAL DEPTH OF HOLE<br><u>6.0 FT BGS</u>                                                                                                       |  |                                     |  | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                                                                                                                                                                                           |  |                                               |  |
| 17. DISTURBED SAMPLES<br><u>0</u>                                                                                                                  |  | 18. UNDISTURBED SAMPLES<br><u>0</u> |  | 19. TOTAL NUMBER OF CORE BOXES<br><u>0</u>                                                                                                                                                                                                           |  | 20. SAMPLES FOR CHEMICAL ANALYSIS<br><u>0</u> |  |
| 21. DEPOSITION OF SOIL<br><u>Yes</u>                                                                                                               |  | 22. MONITORING WELL<br><u>N/A</u>   |  | 23. OTHER SPECIFY<br><u>NA</u>                                                                                                                                                                                                                       |  | 24. TOTAL CORE RECOVERY<br><u>0%</u>          |  |
| LOCATION SKETCH/COMMENTS<br><u>North</u><br><u>R.R. Track</u><br><u>Moved boring 3.0' SW</u><br><u>due to debris</u><br><u>SLD</u><br><u>72415</u> |  |                                     |  | WITNESSED BY: <u>Keith Ender</u> SCALE: <u>Not to Scale</u><br><u>Edward K. Goss</u><br><u>Terms used to describe %</u><br><u>Trace - &lt; 5%</u><br><u>Few - 5-10%</u><br><u>Little - 15-25%</u><br><u>Some - 20-35%</u><br><u>Mostly - 50-100%</u> |  |                                               |  |
| 5. SLD<br>72416                                                                                                                                    |  |                                     |  | 5. SLD<br>72417                                                                                                                                                                                                                                      |  |                                               |  |
| PROJECT<br><u>FUSRAP / SLDS</u>                                                                                                                    |  |                                     |  | HOLE NO.<br><u>SLD 72415</u>                                                                                                                                                                                                                         |  |                                               |  |

| HTRW DRILLING LOG |                                                                                                                                                                                   | CONTINUATION SHEET |             | HOLE NUMBER |                                                                                |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------|-------------|--------------------------------------------------------------------------------|
| PROJECT           |                                                                                                                                                                                   | INSPECTOR          |             | SHEET       |                                                                                |
| FUS RAP/SLOS      |                                                                                                                                                                                   | Philip Stalter     |             | 72415       |                                                                                |
| DEPTH             | DESCRIPTION OF MATERIAL                                                                                                                                                           | NO. OF SAMPLES     | RECOVERY    | BLANK COUNT | REMARKS                                                                        |
| 0.0               | Silty fine sand w/ few med gravel, dense, poorly graded, dk. brn. to blk, moist, few clasts, few slag, trace coal, trace brick frags, trace silty clay, few wood frags (R.R. tie) | 6300 0.0           | 2.0/2.0     | 20          |                                                                                |
| 1.0               |                                                                                                                                                                                   | 6800 0.0           |             | 11          |                                                                                |
| 2.0               |                                                                                                                                                                                   | 5900 0.0           |             | 9           |                                                                                |
| 3.0               |                                                                                                                                                                                   | 6500 0.0           |             | 8           |                                                                                |
| 4.0               |                                                                                                                                                                                   | 6100 ac            | 1.7/2.0     | 5           |                                                                                |
| 5.0               | Silty clay, med. stiff to stiff, med. plastic, lt. brn. to dk. brn., moist, few med. gravel, few "gray" silts                                                                     | 6300 0.0           |             | 10          |                                                                                |
| 6.0               |                                                                                                                                                                                   | 6900 0.0           |             | 13          | archive sample from 3.0-3.5 BGS                                                |
| 7.0               |                                                                                                                                                                                   | 6700 0.0           | no recovery | 10          |                                                                                |
| 8.0               |                                                                                                                                                                                   | 5200 0.0           | 1.5/2.0     | 3           |                                                                                |
| 9.0               | Silty fine sand, loose, poorly graded, lt. brn. to gray, moist                                                                                                                    | 5900 0.0           |             | 4           | archive sample from 4.5-5.0 BGS (1145)                                         |
| 10.0              |                                                                                                                                                                                   | 5500 0.0           |             | 4           |                                                                                |
| 11.0              |                                                                                                                                                                                   | no recovery        | no recovery | 4           |                                                                                |
| 12.0              | TD: 6.0' BGS 1130 11-18-02                                                                                                                                                        |                    |             |             | Background NaF 5900 PID: 0.0 Back-filled boring w/ 30 bags of bentonite chips. |

| HTRW DRILLING LOG                                                                                                    |  |                       |  | St. Louis                                                                                                       |  | HOLE NUMBER<br>SLD 72416            |  |
|----------------------------------------------------------------------------------------------------------------------|--|-----------------------|--|-----------------------------------------------------------------------------------------------------------------|--|-------------------------------------|--|
| 1. COMPANY NAME<br>Shaw F & I                                                                                        |  |                       |  | 2. DRILLING CONTRACTOR<br>MES, Inc.                                                                             |  | 3. SHEET<br>1 of 2                  |  |
| 4. PROJECT<br>FUSRAP / SLDs                                                                                          |  |                       |  | 5. LOCATION<br>PSC Metals North Tract V.P.                                                                      |  |                                     |  |
| 6. NAME OF DRILLER<br>Chris Anthony                                                                                  |  |                       |  | 7. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120                                                        |  |                                     |  |
| 8. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using 3/4" HSA and<br>3" x 2' split spoon |  |                       |  | 9. HOLE LOCATION<br>See location sketch                                                                         |  |                                     |  |
|                                                                                                                      |  |                       |  | 10. SURFACE ELEVATION<br>N/A                                                                                    |  |                                     |  |
| 11. DATE STARTED<br>11-21-02                                                                                         |  |                       |  | 12. DATE COMPLETED<br>11-21-02                                                                                  |  |                                     |  |
| 13. JITTERBURN THICKNESS<br>N/A                                                                                      |  |                       |  | 14. DEPTH GROUNDWATER ENCOUNTERED<br>N/A                                                                        |  |                                     |  |
| 15. DEPTH DRILLED INTO ROCK<br>N/A                                                                                   |  |                       |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A                                             |  |                                     |  |
| 17. TOTAL DEPTH OF HOLE<br>6.0 FT BGS                                                                                |  |                       |  | 18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                                                             |  |                                     |  |
| 19. GEOTECHNICAL SAMPLES<br>0                                                                                        |  | 20. DISTURBED<br>0    |  | 21. UNDISTURBED<br>0                                                                                            |  | 22. TOTAL NUMBER OF CORE BOXES<br>0 |  |
| 23. SAMPLES FOR CHEMICAL ANALYSIS<br>0                                                                               |  | 24. TYPE<br>0         |  | 25. METALS<br>0                                                                                                 |  | 26. OTHER SPECIFY<br>RAD            |  |
| 27. DEPOSITION OF HOLE<br>0                                                                                          |  | 28. BACKFILLED<br>Yes |  | 29. MONITORING WELL<br>N/A                                                                                      |  | 30. OTHER SPECIFY<br>N/A            |  |
| 31. LOCATION SKETCH/COMMENTS<br>North                                                                                |  |                       |  | 32. WITNESSED BY: Keith Enders                                                                                  |  |                                     |  |
|                                                                                                                      |  |                       |  | 33. SCALE: Not to Scale                                                                                         |  |                                     |  |
|                                                                                                                      |  |                       |  | Terms used to describe %<br>Trace - < 5%<br>Few - 5-10%<br>Little - 15-25%<br>Some - 20-35%<br>Mostly - 50-100% |  |                                     |  |
| PROJECT: FUSRAP / SLDs <span style="float: right;">HOLE NO. SLD 72416</span>                                         |  |                       |  |                                                                                                                 |  |                                     |  |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                           |                      |                 | HOLE NUMBER       |         |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------|-------------------|---------|
| PROJECT                                |                                                                                                                           | INSPECTOR            |                 | SHEET             |         |
| EUSRAP/SLOS                            |                                                                                                                           | Phillip Statler      |                 | SLD 72416         |         |
| DEPTH<br>(feet)                        | DESCRIPTION OF MATERIAL                                                                                                   | UNIT WEIGHT<br>(pcf) | RECOVERY<br>(%) | BLASTING<br>NO.   | REMARKS |
| 1.0                                    | SM silty fine sand w/ few med. gravel, loose to med dense, poorly graded, dk. brn, trace silt, trace slag, trace bricks   | 4500<br>0.0          | 1.4/2.0         | SLD 72416<br>1135 | 8       |
| 2.0                                    | Concrete debris                                                                                                           | 5000<br>0.0          |                 | SLD 72416<br>1135 | 11      |
| 3.0                                    |                                                                                                                           | N/A                  |                 |                   | N/A     |
| 4.0                                    |                                                                                                                           | 4500<br>0.0          | no recovery     |                   | 8       |
| 5.0                                    | CL silty clay, stiff med. plast., lt. brn. to gry, dry, few brick frags, trace slag, trace wood frags, few coarse gravel. | 5500<br>0.0          | 1.6/2.0         | SLD 72416<br>1135 | 8       |
| 6.0                                    |                                                                                                                           | 5000<br>0.0          |                 |                   | 9       |
| 7.0                                    |                                                                                                                           | 5100<br>0.0          |                 |                   | 13      |
| 8.0                                    |                                                                                                                           | N/A                  | no recovery     |                   | 7       |
| 9.0                                    | few med. gravel                                                                                                           | 4700<br>0.0          |                 |                   | 12      |
| 10.0                                   | brick frags, slag, and wood absent                                                                                        | 4800<br>0.0          | 1.8/2.0         |                   | 10      |
| 11.0                                   |                                                                                                                           | 5100<br>0.0          |                 |                   | 7       |
| 12.0                                   |                                                                                                                           | 5500<br>0.0          | no recovery     | SLD 72416<br>1135 | 10      |
| 13.0                                   |                                                                                                                           |                      |                 |                   |         |
| 14.0                                   |                                                                                                                           |                      |                 |                   |         |
| 15.0                                   |                                                                                                                           |                      |                 |                   |         |
| 16.0                                   |                                                                                                                           |                      |                 |                   |         |
| 17.0                                   |                                                                                                                           |                      |                 |                   |         |
| 18.0                                   |                                                                                                                           |                      |                 |                   |         |
| 19.0                                   |                                                                                                                           |                      |                 |                   |         |
| 20.0                                   |                                                                                                                           |                      |                 |                   |         |
| 21.0                                   |                                                                                                                           |                      |                 |                   |         |
| 22.0                                   |                                                                                                                           |                      |                 |                   |         |
| 23.0                                   |                                                                                                                           |                      |                 |                   |         |
| 24.0                                   |                                                                                                                           |                      |                 |                   |         |
| 25.0                                   |                                                                                                                           |                      |                 |                   |         |
| 26.0                                   |                                                                                                                           |                      |                 |                   |         |
| 27.0                                   |                                                                                                                           |                      |                 |                   |         |
| 28.0                                   |                                                                                                                           |                      |                 |                   |         |
| 29.0                                   |                                                                                                                           |                      |                 |                   |         |
| 30.0                                   |                                                                                                                           |                      |                 |                   |         |
| 31.0                                   |                                                                                                                           |                      |                 |                   |         |
| 32.0                                   |                                                                                                                           |                      |                 |                   |         |
| 33.0                                   |                                                                                                                           |                      |                 |                   |         |
| 34.0                                   |                                                                                                                           |                      |                 |                   |         |
| 35.0                                   |                                                                                                                           |                      |                 |                   |         |
| 36.0                                   |                                                                                                                           |                      |                 |                   |         |
| 37.0                                   |                                                                                                                           |                      |                 |                   |         |
| 38.0                                   |                                                                                                                           |                      |                 |                   |         |
| 39.0                                   |                                                                                                                           |                      |                 |                   |         |
| 40.0                                   |                                                                                                                           |                      |                 |                   |         |
| 41.0                                   |                                                                                                                           |                      |                 |                   |         |
| 42.0                                   |                                                                                                                           |                      |                 |                   |         |
| 43.0                                   |                                                                                                                           |                      |                 |                   |         |
| 44.0                                   |                                                                                                                           |                      |                 |                   |         |
| 45.0                                   |                                                                                                                           |                      |                 |                   |         |
| 46.0                                   |                                                                                                                           |                      |                 |                   |         |
| 47.0                                   |                                                                                                                           |                      |                 |                   |         |
| 48.0                                   |                                                                                                                           |                      |                 |                   |         |
| 49.0                                   |                                                                                                                           |                      |                 |                   |         |
| 50.0                                   |                                                                                                                           |                      |                 |                   |         |
| 51.0                                   |                                                                                                                           |                      |                 |                   |         |
| 52.0                                   |                                                                                                                           |                      |                 |                   |         |
| 53.0                                   |                                                                                                                           |                      |                 |                   |         |
| 54.0                                   |                                                                                                                           |                      |                 |                   |         |
| 55.0                                   |                                                                                                                           |                      |                 |                   |         |
| 56.0                                   |                                                                                                                           |                      |                 |                   |         |
| 57.0                                   |                                                                                                                           |                      |                 |                   |         |
| 58.0                                   |                                                                                                                           |                      |                 |                   |         |
| 59.0                                   |                                                                                                                           |                      |                 |                   |         |
| 60.0                                   |                                                                                                                           |                      |                 |                   |         |
| 61.0                                   |                                                                                                                           |                      |                 |                   |         |
| 62.0                                   |                                                                                                                           |                      |                 |                   |         |
| 63.0                                   |                                                                                                                           |                      |                 |                   |         |
| 64.0                                   |                                                                                                                           |                      |                 |                   |         |
| 65.0                                   |                                                                                                                           |                      |                 |                   |         |
| 66.0                                   |                                                                                                                           |                      |                 |                   |         |
| 67.0                                   |                                                                                                                           |                      |                 |                   |         |
| 68.0                                   |                                                                                                                           |                      |                 |                   |         |
| 69.0                                   |                                                                                                                           |                      |                 |                   |         |
| 70.0                                   |                                                                                                                           |                      |                 |                   |         |
| 71.0                                   |                                                                                                                           |                      |                 |                   |         |
| 72.0                                   |                                                                                                                           |                      |                 |                   |         |
| 73.0                                   |                                                                                                                           |                      |                 |                   |         |
| 74.0                                   |                                                                                                                           |                      |                 |                   |         |
| 75.0                                   |                                                                                                                           |                      |                 |                   |         |
| 76.0                                   |                                                                                                                           |                      |                 |                   |         |
| 77.0                                   |                                                                                                                           |                      |                 |                   |         |
| 78.0                                   |                                                                                                                           |                      |                 |                   |         |
| 79.0                                   |                                                                                                                           |                      |                 |                   |         |
| 80.0                                   |                                                                                                                           |                      |                 |                   |         |
| 81.0                                   |                                                                                                                           |                      |                 |                   |         |
| 82.0                                   |                                                                                                                           |                      |                 |                   |         |
| 83.0                                   |                                                                                                                           |                      |                 |                   |         |
| 84.0                                   |                                                                                                                           |                      |                 |                   |         |
| 85.0                                   |                                                                                                                           |                      |                 |                   |         |
| 86.0                                   |                                                                                                                           |                      |                 |                   |         |
| 87.0                                   |                                                                                                                           |                      |                 |                   |         |
| 88.0                                   |                                                                                                                           |                      |                 |                   |         |
| 89.0                                   |                                                                                                                           |                      |                 |                   |         |
| 90.0                                   |                                                                                                                           |                      |                 |                   |         |
| 91.0                                   |                                                                                                                           |                      |                 |                   |         |
| 92.0                                   |                                                                                                                           |                      |                 |                   |         |
| 93.0                                   |                                                                                                                           |                      |                 |                   |         |
| 94.0                                   |                                                                                                                           |                      |                 |                   |         |
| 95.0                                   |                                                                                                                           |                      |                 |                   |         |
| 96.0                                   |                                                                                                                           |                      |                 |                   |         |
| 97.0                                   |                                                                                                                           |                      |                 |                   |         |
| 98.0                                   |                                                                                                                           |                      |                 |                   |         |
| 99.0                                   |                                                                                                                           |                      |                 |                   |         |
| 100.0                                  |                                                                                                                           |                      |                 |                   |         |

| HTRW DRILLING LOG                                               |           |                                                              |                                | DISTRICT St. Louis                           |  | HOLE NUMBER SLD 72417                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                          |           |             |                                |                                   |     |        |                 |                         |          |                 |                 |                            |     |     |     |
|-----------------------------------------------------------------|-----------|--------------------------------------------------------------|--------------------------------|----------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------|-----------|-------------|--------------------------------|-----------------------------------|-----|--------|-----------------|-------------------------|----------|-----------------|-----------------|----------------------------|-----|-----|-----|
| 1. COMPANY NAME Shaw E & I                                      |           | 2. DRILLING SUBCONTRACTOR MES, Inc.                          |                                | SHEET 1                                      |  | SHEETS 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |           |             |                                |                                   |     |        |                 |                         |          |                 |                 |                            |     |     |     |
| 3. PROJECT FUSRAP/SLDS                                          |           | 4. LOCATION PSC Metals North Tract V.P.                      |                                | 5. NAME OF DRILLER Chris Anthony             |  | 6. MANUFACTURER'S DESIGNATION OF DRILL Diedrich D-120                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                          |           |             |                                |                                   |     |        |                 |                         |          |                 |                 |                            |     |     |     |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT           |           | 8. HOLE LOCATION                                             |                                | 9. SURFACE ELEVATION                         |  | 10. DATE STARTED                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                          |           |             |                                |                                   |     |        |                 |                         |          |                 |                 |                            |     |     |     |
| Diedrich D-120<br>Using 4 1/2" HSA and<br>3" x 30" split spoon. |           | See location sketch                                          |                                | N/A                                          |  | 2-19-03                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                          |           |             |                                |                                   |     |        |                 |                         |          |                 |                 |                            |     |     |     |
| 11. DATE COMPLETED                                              |           | 12. OVERBURDEN THICKNESS                                     |                                | 13. DEPTH DRILLED INTO ROCK                  |  | 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                          |           |             |                                |                                   |     |        |                 |                         |          |                 |                 |                            |     |     |     |
| 2-19-03                                                         |           | N/A                                                          |                                | N/A                                          |  | 6.0 FT BGS                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                          |           |             |                                |                                   |     |        |                 |                         |          |                 |                 |                            |     |     |     |
| 15. DEPTH GROUNDWATER ENCOUNTERED                               |           | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED |                                | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) |  | 18. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                          |           |             |                                |                                   |     |        |                 |                         |          |                 |                 |                            |     |     |     |
| N/A                                                             |           | N/A                                                          |                                | N/A                                          |  | <table border="1"> <tr> <td>18. GEOTECHNICAL SAMPLES</td> <td>DISTURBED</td> <td>UNDISTURBED</td> <td>19. TOTAL NUMBER OF CORE BOXES</td> </tr> <tr> <td>20. SAMPLES FOR CHEMICAL ANALYSIS</td> <td>VOC</td> <td>METALS</td> <td>OTHER (SPECIFY)</td> </tr> <tr> <td>21. DISPOSITION OF HOLE</td> <td>BACKFILL</td> <td>MONITORING WELL</td> <td>OTHER (SPECIFY)</td> </tr> <tr> <td>22. SIGNATURE OF INSPECTOR</td> <td>Yes</td> <td>N/A</td> <td>N/A</td> </tr> </table> |  | 18. GEOTECHNICAL SAMPLES | DISTURBED | UNDISTURBED | 19. TOTAL NUMBER OF CORE BOXES | 20. SAMPLES FOR CHEMICAL ANALYSIS | VOC | METALS | OTHER (SPECIFY) | 21. DISPOSITION OF HOLE | BACKFILL | MONITORING WELL | OTHER (SPECIFY) | 22. SIGNATURE OF INSPECTOR | Yes | N/A | N/A |
| 18. GEOTECHNICAL SAMPLES                                        | DISTURBED | UNDISTURBED                                                  | 19. TOTAL NUMBER OF CORE BOXES |                                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                          |           |             |                                |                                   |     |        |                 |                         |          |                 |                 |                            |     |     |     |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                               | VOC       | METALS                                                       | OTHER (SPECIFY)                |                                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                          |           |             |                                |                                   |     |        |                 |                         |          |                 |                 |                            |     |     |     |
| 21. DISPOSITION OF HOLE                                         | BACKFILL  | MONITORING WELL                                              | OTHER (SPECIFY)                |                                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                          |           |             |                                |                                   |     |        |                 |                         |          |                 |                 |                            |     |     |     |
| 22. SIGNATURE OF INSPECTOR                                      | Yes       | N/A                                                          | N/A                            |                                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                          |           |             |                                |                                   |     |        |                 |                         |          |                 |                 |                            |     |     |     |
| 23. SIGNATURE OF INSPECTOR                                      |           | 24. SCALE: Not to Scale                                      |                                | 25. TERMS USED TO DESCRIBE %                 |  | 26. TOTAL CORE RECOVERY %                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                          |           |             |                                |                                   |     |        |                 |                         |          |                 |                 |                            |     |     |     |
| Susan L. Adams                                                  |           | Witnessed by: Susan Adams                                    |                                | Trace - < 5 %                                |  | 0 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                          |           |             |                                |                                   |     |        |                 |                         |          |                 |                 |                            |     |     |     |
| SLD 72417                                                       |           | SLD 72418                                                    |                                | Few - 5 - 10 %                               |  | 0 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                          |           |             |                                |                                   |     |        |                 |                         |          |                 |                 |                            |     |     |     |
| (Moved boring 17' N due to metal debris / slope)                |           | SLD 72422                                                    |                                | Little - 15 - 25 %                           |  | 0 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                          |           |             |                                |                                   |     |        |                 |                         |          |                 |                 |                            |     |     |     |
| SLD 72417                                                       |           | SLD 72418                                                    |                                | Same - 20 - 35 %                             |  | 0 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                          |           |             |                                |                                   |     |        |                 |                         |          |                 |                 |                            |     |     |     |
| SLD 72417                                                       |           | SLD 72418                                                    |                                | Mostly - 50 - 100 %                          |  | 0 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                          |           |             |                                |                                   |     |        |                 |                         |          |                 |                 |                            |     |     |     |
| PROJECT FUSRAP/SLDS                                             |           | HOLE NO. SLD 72417                                           |                                |                                              |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                          |           |             |                                |                                   |     |        |                 |                         |          |                 |                 |                            |     |     |     |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                         |                |                 |                   |               |                                                                                                                                                                                               |
|----------------------------------------|---------------------------------------------------------------------------------------------------------|----------------|-----------------|-------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROJECT                                |                                                                                                         | INSPECTOR      |                 | HOLE NO.          |               |                                                                                                                                                                                               |
| FUSRAP / SLDS                          |                                                                                                         | Phillip Staher |                 | SLD 72417         |               |                                                                                                                                                                                               |
| DEPTH (ft)                             | DESCRIPTION OF MATERIAL                                                                                 | RECOVERY (%)   | GRAIN SIZE (mm) | WATER CONTENT (%) | SHRINKAGE (%) | REMARKS                                                                                                                                                                                       |
| 1.0                                    | Silty fine sand P.S.<br>Poor recovery<br>See SLD 72417B<br>for details                                  | N/A            | N/A             | 8                 |               |                                                                                                                                                                                               |
| 2.0                                    | Silty fine sand w/ few med. gravel, loose, poorly graded, dk brn, wet, few cinders, few slag, few clay. | 4700 0.0       | 1.8 / 2.0       | 20-25             | 4             |                                                                                                                                                                                               |
| 3.0                                    |                                                                                                         | 4900 0.0       |                 | 1457              | 4             |                                                                                                                                                                                               |
| 4.0                                    |                                                                                                         | 4800 0.0       |                 | 20-25             | 3             |                                                                                                                                                                                               |
| 5.0                                    | some clay, cinders and slag absent.                                                                     | 4500 0.0       | 2.0 / 2.0       | 1500              | 3             | SLD 72450 2-19-03 1503                                                                                                                                                                        |
| 6.0                                    |                                                                                                         | 5100 0.0       |                 | 40-45             | 3             |                                                                                                                                                                                               |
| 7.0                                    |                                                                                                         | 5200 0.0       |                 | 1430              | 2             |                                                                                                                                                                                               |
| 8.0                                    |                                                                                                         | 4800 0.0       |                 | 45-50             | 2             |                                                                                                                                                                                               |
| 9.0                                    |                                                                                                         | 5000 0.0       |                 | 1435              | 2             |                                                                                                                                                                                               |
| 10.0                                   |                                                                                                         |                |                 | 55-60             | 4             | SLD 72457 1440                                                                                                                                                                                |
| 11.0                                   | TD: 6.0' BG5<br>2-19-03<br>1435                                                                         |                |                 |                   |               | Background:<br>Nat: 4,495<br>PIB: 0.0<br>Back-filled<br>borings w/<br>3.0 bag<br>of benton-<br>ite chips.<br>Samples will<br>be counted<br>using gas<br>proportional<br>meter. (see<br>sheet) |

RADIOLOGICAL SURVEY FORM

Sample ID SLD 72417  
Susan Adams

Date Sample was collected: 2-19-03

Date Sample was analyzed: 2-25-03

Instrument #1 Background: 4495 cpm

Instrument #2 Background: 4754 cpm

Count rate of Empty Pan: Beta 85 cpm

| Sample Depth<br>(Inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 0-6                      | N/A                                                       |                                   |                                                       |                               |                                    |          |
| 6-12                     | N/A                                                       |                                   |                                                       |                               |                                    |          |
| 12-18                    | N/A                                                       |                                   |                                                       |                               |                                    |          |
| 18-24                    | N/A                                                       |                                   |                                                       |                               |                                    |          |
| 24-30                    | 4700                                                      | 205                               | 4958                                                  | 204                           | 158                                | 73       |
| 30-36                    | 4900                                                      | 405                               | 5016                                                  | 262                           | 151                                | 66       |
| 36-42                    | 4800                                                      | 305                               | 5043                                                  | 289                           | 134                                | 49       |
| 42-48                    | 4500                                                      | 5                                 | 4925                                                  | 171                           | 145                                | 60       |
| 48-54                    | 5100                                                      | 605                               | 4987                                                  | 233                           | 141                                | 56       |
| 54-60                    | 5200                                                      | 705                               | 5109                                                  | 355                           | 144                                | 59       |
| 60-66                    | 4800                                                      | 305                               | 4898                                                  | 144                           | 148                                | 63       |
| 66-72                    | 5000                                                      | 505                               | 4718                                                  | -36                           | 129                                | 44       |

SLD 72450

SLD 72457



| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                               |  | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER <u>SLD 72417 B</u>       |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------|--|----------------------------------------------------------------------------|--|--------------------------------------|--|
| 1. COMPANY NAME<br><u>Shaw E &amp; I</u>                                                                                                                                                                                                                                                                                                                                                                                        |  | 2. DRILLING SUBCONTRACTOR<br><u>MES, Inc.</u> |  | SHEET <u>1</u> OF <u>2</u>                                                 |  |                                      |  |
| 3. PROJECT<br><u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                                |  |                                               |  | 4. LOCATION<br><u>PSC Metals North Tract V.P.</u>                          |  |                                      |  |
| 5. NAME OF DRILLER<br><u>Chris Anthony</u>                                                                                                                                                                                                                                                                                                                                                                                      |  |                                               |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>Diedrich D-120</u>            |  |                                      |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Diedrich D-120</u><br><u>using 4" HSA and</u><br><u>3" x 3" split spear.</u>                                                                                                                                                                                                                                                                                        |  |                                               |  | 8. HOLE LOCATION<br><u>See location sketch</u>                             |  |                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                               |  | 9. SURFACE ELEVATION<br><u>N/A</u>                                         |  |                                      |  |
| <u>PEP 19-03 NAT</u> <u>LUP 172080</u><br><u>to 100/100 Cal. Date: 4-11-03 Bkg: 4445</u>                                                                                                                                                                                                                                                                                                                                        |  |                                               |  | 10. DATE STARTED<br><u>2-19-03</u>                                         |  | 11. DATE COMPLETED<br><u>2-19-03</u> |  |
| 12. OVERBURDEN THICKNESS<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                          |  |                                               |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                      |  |
| 13. DEPTH DRILLED INTO ROCK<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                       |  |                                               |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                      |  |
| 14. TOTAL DEPTH OF HOLE<br><u>2.0 FT BGS</u>                                                                                                                                                                                                                                                                                                                                                                                    |  |                                               |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                      |  |
| 18. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                        |  | DISTURBED                                     |  | UNDISTURBED                                                                |  | 19. TOTAL NUMBER OF CORE BOXES       |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                               |  | VOC                                           |  | METALS                                                                     |  | OTHER (SPECIFY)                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | <u>Yes</u>                                    |  | <u>N/A</u>                                                                 |  | <u>N/A</u>                           |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                         |  | BACKFILLED                                    |  | MONITORING WELL                                                            |  | OTHER (SPECIFY)                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | <u>Yes</u>                                    |  | <u>N/A</u>                                                                 |  | <u>N/A</u>                           |  |
| 23. SIGNATURE OF INSPECTOR<br><u>[Signature]</u>                                                                                                                                                                                                                                                                                                                                                                                |  |                                               |  | 21. TOTAL CORE RECOVERED <u>0 %</u>                                        |  |                                      |  |
| <div style="display: flex; justify-content: space-between;"> <div> <p>LOCATION SKETCH/COMMENTS</p> <p>Witnessed by: <u>Susan Adams</u></p> <p><u>[Signature]</u></p> </div> <div> <p>SCALE: <u>Not to Scale</u></p> <p>Terms used to describe %</p> <p>Trace - <u>&lt; 5 %</u></p> <p>Few - <u>5 - 10 %</u></p> <p>Little - <u>15 - 25 %</u></p> <p>Some - <u>20 - 35 %</u></p> <p>Mostly - <u>50 - 100 %</u></p> </div> </div> |  |                                               |  |                                                                            |  |                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                               |  |                                                                            |  |                                      |  |
| PROJECT <u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                               |  |                                                                            |  | HOLE NO. <u>SLD 72417 B</u>          |  |

1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                          |                          |               |                       |                    | WELL NO. 72417 B       |
|----------------------------------------|--------------------------------------------------------------------------|--------------------------|---------------|-----------------------|--------------------|------------------------|
| PROJECT FUSRAP / SLDs                  |                                                                          | INSPECTOR Philip Statler |               | SHEET 2 of 2          |                    |                        |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                 | WELL NO. (ft)            | RECOVERY (ft) | ANALYSIS LAB NO. (ft) | BRIDGE COUNTY (ft) | REMARKS                |
| 0.0                                    | Silty fine sand w/ few med. gravel, loose, poorly graded, d/c. brn, wet. | 4400                     | 1.8           | 00-2.5' 1445          | 4                  | SLD 72417 2-19-03 1450 |
| 1.0                                    | Some clay, few cinders, few slag                                         | 4600                     | 2.0           | 0.5-1.0' 1447         | 5                  |                        |
| 2.0                                    |                                                                          | 4600                     |               | 1.0-1.5' 1449         | 7                  |                        |
| 3.0                                    |                                                                          | 4700                     | no recovery   | 1.5-2.0' 1450         | 7                  |                        |
| 4.0                                    | TD: 2.0' BGS                                                             |                          |               |                       |                    | Background             |
| 5.0                                    | 2-19-03                                                                  |                          |               |                       |                    | Nat: 4495              |
| 6.0                                    | 1450                                                                     |                          |               |                       |                    | PID = 0.0              |
| 7.0                                    |                                                                          |                          |               |                       |                    | Boring                 |
| 8.0                                    |                                                                          |                          |               |                       |                    | back filled            |
| 9.0                                    |                                                                          |                          |               |                       |                    | w/ 1.0 bags            |
| 10.0                                   |                                                                          |                          |               |                       |                    | of bentonite           |
|                                        |                                                                          |                          |               |                       |                    | chips.                 |
|                                        |                                                                          |                          |               |                       |                    | * Samples              |
|                                        |                                                                          |                          |               |                       |                    | will be                |
|                                        |                                                                          |                          |               |                       |                    | counted                |
|                                        |                                                                          |                          |               |                       |                    | using gas              |
|                                        |                                                                          |                          |               |                       |                    | proportional           |
|                                        |                                                                          |                          |               |                       |                    | meter.                 |
|                                        |                                                                          |                          |               |                       |                    | (See attached sheet)   |

RADIOLOGICAL SURVEY FORM

Sample ID SLD 72417 B  
Susan Adams

Date Sample was collected: 2-19-03

Date Sample was analyzed: 2-25-03

Instrument #1 Background 4495 cpm

Instrument #2 Background 4747 cpm

Count rate of Empty Pan: Beta 111 cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 0-6                      | 4600                                                      | 105                               | 4726                                                  | -21                           | 118                                | 7        |
| 6-12                     | 4600                                                      | 105                               | 4839                                                  | 92                            | 146                                | 35       |
| 12-18                    | 4600                                                      | 105                               | 5036                                                  | 289                           | 138                                | 27       |
| 18-24                    | 4700                                                      | 205                               | 4611                                                  | -136                          | 108                                | +3       |
| 24-30                    |                                                           |                                   |                                                       |                               |                                    |          |
| 30-36                    |                                                           |                                   |                                                       |                               |                                    |          |
| 36-42                    |                                                           |                                   |                                                       |                               |                                    |          |
| 42-48                    |                                                           |                                   |                                                       |                               |                                    |          |
| 48-54                    |                                                           |                                   |                                                       |                               |                                    |          |
| 54-60                    |                                                           |                                   |                                                       |                               |                                    |          |
| 60-66                    |                                                           |                                   |                                                       |                               |                                    |          |
| 66-72                    |                                                           |                                   |                                                       |                               |                                    |          |

SLD 72417

SLD 72435-1,2

N A

| HTRW DRILLING LOG                                                                                          |  |  |  | DISTRICT St. Louis                                               |  | HOLE NUMBER SLD 72417 (AC) |  |
|------------------------------------------------------------------------------------------------------------|--|--|--|------------------------------------------------------------------|--|----------------------------|--|
| 1. COMPANY NAME Shaw E & I                                                                                 |  |  |  | 2. DRILLING SUBCONTRACTOR MES, Inc.                              |  | SHEET 1 of 2               |  |
| 3. PROJECT FUSRAP/SLDS                                                                                     |  |  |  | 4. LOCATION PSC Metals North Tract V.P.                          |  |                            |  |
| 5. NAME OF DRILLER Chris Anthony                                                                           |  |  |  | 6. MANUFACTURER'S DESIGNATION OF DRILL Diedrich D-120            |  |                            |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT Diedrich D-120 using 3" HSA and 3" x 3" split spoon. |  |  |  | 8. HOLE LOCATION See location sketch                             |  |                            |  |
| 9. SURFACE ELEVATION N/A                                                                                   |  |  |  | 10. DATE STARTED 2-19-03                                         |  |                            |  |
| 11. DATE COMPLETED 2-19-03                                                                                 |  |  |  | 12. OVERBURDEN THICKNESS N/A                                     |  |                            |  |
| 13. DEPTH DRILLED INTO ROCK N/A                                                                            |  |  |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED N/A |  |                            |  |
| 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) N/A                                                           |  |  |  | 16. TOTAL DEPTH OF HOLE 2.0 FT BGS                               |  |                            |  |
| 17. GEOTECHNICAL SAMPLES                                                                                   |  |  |  | 18. TOTAL NUMBER OF CORE BOXES                                   |  |                            |  |
| 19. SAMPLES FOR CHEMICAL ANALYSIS                                                                          |  |  |  | 20. DISPOSITION OF HOLE                                          |  |                            |  |
| 21. TOTAL CORE RECOVERY                                                                                    |  |  |  | 22. SIGNATURE OF INSPECTOR                                       |  |                            |  |
| 23. LOCATION SKETCH/COMMENTS                                                                               |  |  |  | 24. WITNESSED BY: Susan Adams                                    |  |                            |  |
| 25. SCALE: Not to Scale                                                                                    |  |  |  | 26. TERMS USED TO DESCRIBE %                                     |  |                            |  |
| 27. Trace - < 5 %                                                                                          |  |  |  | 28. Few - 5 - 10 %                                               |  |                            |  |
| 29. Little - 15 - 25 %                                                                                     |  |  |  | 30. Some - 20 - 35 %                                             |  |                            |  |
| 31. Mostly - 50 - 100 %                                                                                    |  |  |  | 32. R.R. Tracks                                                  |  |                            |  |
| 33. SLD 72417 (AC)                                                                                         |  |  |  | 34. SLD 72417 (AC)                                               |  |                            |  |
| 35. SLD 72417 (AC)                                                                                         |  |  |  | 36. SLD 72417 (AC)                                               |  |                            |  |
| 37. SLD 72417 (AC)                                                                                         |  |  |  | 38. SLD 72417 (AC)                                               |  |                            |  |
| 39. SLD 72417 (AC)                                                                                         |  |  |  | 40. SLD 72417 (AC)                                               |  |                            |  |
| 41. SLD 72417 (AC)                                                                                         |  |  |  | 42. SLD 72417 (AC)                                               |  |                            |  |
| 43. SLD 72417 (AC)                                                                                         |  |  |  | 44. SLD 72417 (AC)                                               |  |                            |  |
| 45. SLD 72417 (AC)                                                                                         |  |  |  | 46. SLD 72417 (AC)                                               |  |                            |  |
| 47. SLD 72417 (AC)                                                                                         |  |  |  | 48. SLD 72417 (AC)                                               |  |                            |  |
| 49. SLD 72417 (AC)                                                                                         |  |  |  | 50. SLD 72417 (AC)                                               |  |                            |  |
| 51. SLD 72417 (AC)                                                                                         |  |  |  | 52. SLD 72417 (AC)                                               |  |                            |  |
| 53. SLD 72417 (AC)                                                                                         |  |  |  | 54. SLD 72417 (AC)                                               |  |                            |  |
| 55. SLD 72417 (AC)                                                                                         |  |  |  | 56. SLD 72417 (AC)                                               |  |                            |  |
| 57. SLD 72417 (AC)                                                                                         |  |  |  | 58. SLD 72417 (AC)                                               |  |                            |  |
| 59. SLD 72417 (AC)                                                                                         |  |  |  | 60. SLD 72417 (AC)                                               |  |                            |  |
| 61. SLD 72417 (AC)                                                                                         |  |  |  | 62. SLD 72417 (AC)                                               |  |                            |  |
| 63. SLD 72417 (AC)                                                                                         |  |  |  | 64. SLD 72417 (AC)                                               |  |                            |  |
| 65. SLD 72417 (AC)                                                                                         |  |  |  | 66. SLD 72417 (AC)                                               |  |                            |  |
| 67. SLD 72417 (AC)                                                                                         |  |  |  | 68. SLD 72417 (AC)                                               |  |                            |  |
| 69. SLD 72417 (AC)                                                                                         |  |  |  | 70. SLD 72417 (AC)                                               |  |                            |  |
| 71. SLD 72417 (AC)                                                                                         |  |  |  | 72. SLD 72417 (AC)                                               |  |                            |  |
| 73. SLD 72417 (AC)                                                                                         |  |  |  | 74. SLD 72417 (AC)                                               |  |                            |  |
| 75. SLD 72417 (AC)                                                                                         |  |  |  | 76. SLD 72417 (AC)                                               |  |                            |  |
| 77. SLD 72417 (AC)                                                                                         |  |  |  | 78. SLD 72417 (AC)                                               |  |                            |  |
| 79. SLD 72417 (AC)                                                                                         |  |  |  | 80. SLD 72417 (AC)                                               |  |                            |  |
| 81. SLD 72417 (AC)                                                                                         |  |  |  | 82. SLD 72417 (AC)                                               |  |                            |  |
| 83. SLD 72417 (AC)                                                                                         |  |  |  | 84. SLD 72417 (AC)                                               |  |                            |  |
| 85. SLD 72417 (AC)                                                                                         |  |  |  | 86. SLD 72417 (AC)                                               |  |                            |  |
| 87. SLD 72417 (AC)                                                                                         |  |  |  | 88. SLD 72417 (AC)                                               |  |                            |  |
| 89. SLD 72417 (AC)                                                                                         |  |  |  | 90. SLD 72417 (AC)                                               |  |                            |  |
| 91. SLD 72417 (AC)                                                                                         |  |  |  | 92. SLD 72417 (AC)                                               |  |                            |  |
| 93. SLD 72417 (AC)                                                                                         |  |  |  | 94. SLD 72417 (AC)                                               |  |                            |  |
| 95. SLD 72417 (AC)                                                                                         |  |  |  | 96. SLD 72417 (AC)                                               |  |                            |  |
| 97. SLD 72417 (AC)                                                                                         |  |  |  | 98. SLD 72417 (AC)                                               |  |                            |  |
| 99. SLD 72417 (AC)                                                                                         |  |  |  | 100. SLD 72417 (AC)                                              |  |                            |  |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                             |                           |             |              |              |                                                                                                                                                                                                                | FILE NO. 72412(OC) |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------|--------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| PROJECT FUSRAP/SLDS                    |                                                                                                                             | INSPECTOR Phillip Statler |             | SHEET 2 OF 2 |              | SHEETS                                                                                                                                                                                                         |                    |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                                                                    | TESTS                     | RECOVERY    | ANALYSIS     | SLURRY COUNT | REMARKS                                                                                                                                                                                                        |                    |
| 1.0                                    | Silty fine sand w/<br>few med. gravel,<br>loose, poorly graded,<br>dk. brn, wet, trace<br>cinders, trace slag,<br>some clay | N/A                       | 2.0/<br>2.0 | *<br>1520    | 5            | Sample collected<br>to ensure<br>sufficient<br>sample volume<br>for AC sample                                                                                                                                  |                    |
|                                        |                                                                                                                             | N/A                       |             |              | 5            |                                                                                                                                                                                                                |                    |
|                                        |                                                                                                                             | N/A                       |             |              | 6            |                                                                                                                                                                                                                |                    |
|                                        |                                                                                                                             | N/A                       |             |              | 5            |                                                                                                                                                                                                                |                    |
| 2.0                                    |                                                                                                                             | 4900<br>CO                |             | 1505         |              |                                                                                                                                                                                                                |                    |
| 3.0                                    | TD: 2.0' BGs<br>2-19-03<br>1500                                                                                             |                           |             |              |              | Backgrounds<br>Nat: 4495<br>PID: 0.0<br>Boring back<br>filled w/<br>1.0 bags of<br>bentonite<br>chips.<br><br>* Samples<br>will be<br>counted<br>w/ gas pro-<br>portional<br>meter.<br>(See attached<br>sheet) |                    |
|                                        |                                                                                                                             |                           |             |              |              |                                                                                                                                                                                                                |                    |
|                                        |                                                                                                                             |                           |             |              |              |                                                                                                                                                                                                                |                    |
|                                        |                                                                                                                             |                           |             |              |              |                                                                                                                                                                                                                |                    |
|                                        |                                                                                                                             |                           |             |              |              |                                                                                                                                                                                                                |                    |
|                                        |                                                                                                                             |                           |             |              |              |                                                                                                                                                                                                                |                    |
|                                        |                                                                                                                             |                           |             |              |              |                                                                                                                                                                                                                |                    |
|                                        |                                                                                                                             |                           |             |              |              |                                                                                                                                                                                                                |                    |
|                                        |                                                                                                                             |                           |             |              |              |                                                                                                                                                                                                                |                    |
|                                        |                                                                                                                             |                           |             |              |              |                                                                                                                                                                                                                |                    |
|                                        |                                                                                                                             |                           |             |              |              |                                                                                                                                                                                                                |                    |
|                                        |                                                                                                                             |                           |             |              |              |                                                                                                                                                                                                                |                    |
| 4.0                                    |                                                                                                                             |                           |             |              |              |                                                                                                                                                                                                                |                    |
| 5.0                                    |                                                                                                                             |                           |             |              |              |                                                                                                                                                                                                                |                    |
| 6.0                                    |                                                                                                                             |                           |             |              |              |                                                                                                                                                                                                                |                    |
| 7.0                                    |                                                                                                                             |                           |             |              |              |                                                                                                                                                                                                                |                    |
| 8.0                                    |                                                                                                                             |                           |             |              |              |                                                                                                                                                                                                                |                    |
| 9.0                                    |                                                                                                                             |                           |             |              |              |                                                                                                                                                                                                                |                    |
| 10.0                                   |                                                                                                                             |                           |             |              |              |                                                                                                                                                                                                                |                    |

RADIOLOGICAL SURVEY FORM

Sample ID SLD 72417 (QC)

Date Sample was collected: 2-19-03

Date Sample was analyzed: 2-25-03

Instrument #1 Background 4495 cpm

Instrument #2 Background 4747 cpm

Count rate of Empty Pan: Beta 111 cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 0-6                      |                                                           |                                   |                                                       | A                             |                                    |          |
| 6-12                     |                                                           |                                   | N                                                     |                               |                                    |          |
| 12-18                    | 4900                                                      | 405                               | 5002                                                  | 255                           | 125                                | 14       |
| 18-24                    |                                                           |                                   |                                                       |                               |                                    |          |
| 24-30                    |                                                           |                                   |                                                       |                               |                                    |          |
| 30-36                    |                                                           |                                   |                                                       |                               |                                    |          |
| 36-42                    |                                                           |                                   |                                                       | A                             |                                    |          |
| 42-48                    |                                                           |                                   | N                                                     |                               |                                    |          |
| 48-54                    |                                                           |                                   |                                                       |                               |                                    |          |
| 54-60                    |                                                           |                                   |                                                       |                               |                                    |          |
| 60-66                    |                                                           |                                   |                                                       |                               |                                    |          |
| 66-72                    |                                                           |                                   |                                                       |                               |                                    |          |

SLD 72435 1-2

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                   |  |            |  | DISTRICT                                                            |  | HOLE NUMBER                    |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|---------------------------------------------------------------------|--|--------------------------------|--|
| 1. COMPANY NAME<br>Shaw E & I                                                                                                                                                                                                                                                                                       |  |            |  | 2. DRILLING SUBCONTRACTOR<br>MES, Inc.                              |  | 3. HOLE NUMBER<br>SLD 72418    |  |
| 3. PROJECT<br>FUSRAP/SLDS                                                                                                                                                                                                                                                                                           |  |            |  | 4. LOCATION<br>PSC Metals North Tract V.P.                          |  |                                |  |
| 5. NAME OF DRILLER<br>Chris Anthony                                                                                                                                                                                                                                                                                 |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120            |  |                                |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using 4" HSA and<br>3" x 2" split spoon.                                                                                                                                                                                                 |  |            |  | 8. HOLE LOCATION<br>See location sketch                             |  |                                |  |
| 9. SURFACE ELEVATION<br>N/A                                                                                                                                                                                                                                                                                         |  |            |  | 10. DATE STARTED<br>12-11-02                                        |  |                                |  |
| 11. DATE COMPLETED<br>12-12-02                                                                                                                                                                                                                                                                                      |  |            |  | 12. OVERBURDEN THICKNESS<br>N/A                                     |  |                                |  |
| 13. DEPTH DRILLED INTO ROCK<br>N/A                                                                                                                                                                                                                                                                                  |  |            |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A |  |                                |  |
| 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                                                                                                                                                                                                                                                                 |  |            |  | 16. TOTAL DEPTH OF HOLE<br>6.0 FT BGS                               |  |                                |  |
| 17. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                            |  | DISTURBED  |  | UNDISTURBED                                                         |  | 18. TOTAL NUMBER OF CORE BOXES |  |
| 19. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                   |  | VOC        |  | METALS                                                              |  | OTHER (SPECIFY)                |  |
| 20. DEPOSITION OF HOLE                                                                                                                                                                                                                                                                                              |  | BACKFILLED |  | MONITORING WELL                                                     |  | OTHER (SPECIFY)                |  |
| 21. TOTAL CORE RECOVERY                                                                                                                                                                                                                                                                                             |  | Yes        |  | N/A                                                                 |  | N/A                            |  |
| LOCATION SKETCH/COMMENTS Witnessed by: Keith Enders SCALE: Not to Scale<br>Terms used to describe %<br>Trace - < 5 %<br>Few - 5 - 10 %<br>Little - 15 - 25 %<br>Some - 20 - 35 %<br>Mostly - 50 - 100 %<br>R.R. • SLD 72414 Tracks<br>SLD 72479<br>SLD 72418<br>(Moved boring over 12' to N.S.W. due to metal pile) |  |            |  |                                                                     |  |                                |  |
| PROJECT<br>FUSRAP/SLDS                                                                                                                                                                                                                                                                                              |  |            |  | HOLE NO.<br>SLD 72418                                               |  |                                |  |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                  |                           |         |                         |                                                                                           | SLD 72418 |
|----------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------|---------|-------------------------|-------------------------------------------------------------------------------------------|-----------|
| PROJECT FUSRAP / SLDs                  |                                                                                                  | INSPECTOR Phil No Statler |         | SHEET 2 of 2            |                                                                                           |           |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                                         | RECOVERY (%)              | REMARKS | SLD 72418               | REMARKS                                                                                   |           |
| 0.0                                    | Silty fine sand w/ few med. gravel, loose, poorly graded, dk. brn, moist, few wood frags.        | 4700 0.0                  | N/A     | SLD 72418 12-11-02 1615 | Dug first 6" w/ hand trowel.                                                              |           |
| 1.0                                    | Silty fine sand w/ few med. gravel, loose, poorly graded, dk. brn, moist, few cinders, few slag. | 4600 0.0                  | 1.0     | SLD 72436 12-11-02 1615 | Loaders removed 1.0' of metal debris.                                                     |           |
| 2.0                                    | cinders and slag above silty sand turning to grey med. gravel.                                   | 5100 0.0                  | 1.0     |                         |                                                                                           |           |
| 3.0                                    |                                                                                                  | 5500 0.0                  | 2.0     |                         |                                                                                           |           |
| 4.0                                    |                                                                                                  | 4700 0.0                  | 2.0     |                         | archive sample from 3.5 - 4.0' BGS                                                        |           |
| 5.0                                    |                                                                                                  | 4800 0.0                  | 2.0     |                         |                                                                                           |           |
| 6.0                                    |                                                                                                  | 5000 0.0                  | 2.0     |                         | archive sample from 4.5 - 5.0' BGS                                                        |           |
| 7.0                                    |                                                                                                  | 5100 0.0                  | 2.0     |                         |                                                                                           |           |
| 8.0                                    |                                                                                                  | 5300 0.0                  | 2.0     |                         |                                                                                           |           |
| 9.0                                    |                                                                                                  | 5200 0.0                  | 2.0     |                         |                                                                                           |           |
| 10.0                                   |                                                                                                  | 5200 0.0                  | 2.0     |                         |                                                                                           |           |
| TD: 6.0' BGS<br>12-12-02<br>1 @ 40     |                                                                                                  |                           |         |                         | Background:<br>NAT: 4500<br>PID: 0.0<br>Backfilled boring w/ 3.0 bags of bentonite chips. |           |



# -TRW DRILLING LOG

ST. LOUIS

SLD 72419

|                                                                                                                      |  |                                                                     |  |                                       |  |
|----------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------|--|---------------------------------------|--|
| 1. COMPANY NAME<br>Shaw F + I                                                                                        |  | 2. DRILLING CONTRACTOR<br>M.E.S., Inc.                              |  | 3. WELL NUMBER<br>1 - 2               |  |
| 4. PROJECT<br>FUSRAP / SLOS                                                                                          |  | 5. LOCATION<br>PSC Metals North Tract V.P.                          |  |                                       |  |
| 6. NAME OF DRILLER<br>Chris Anthony                                                                                  |  | 7. MANUFACTURER / DESIGNATION OF DRILL<br>Diedrich D-120            |  |                                       |  |
| 8. SIZE AND TYPE OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using 4 1/4" HSA and<br>3" x 3' split spoon |  | 9. HOLE LOCATION<br>see location sketch                             |  |                                       |  |
| 10. DATE STARTED<br>11-13-02                                                                                         |  | 11. DATE COMPLETED<br>11-13-02                                      |  |                                       |  |
| 12. DEPTH DRILLED INTO SOIL<br>N/A                                                                                   |  | 13. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A |  |                                       |  |
| 14. TOTAL DEPTH OF HOLE<br>6.0 FT BGS                                                                                |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                 |  |                                       |  |
| 16. DISTURBED SAMPLES<br>0                                                                                           |  | 17. UNDISTURBED SAMPLES<br>0                                        |  | 18. TOTAL NUMBER OF CORE LOGS<br>0    |  |
| 19. SAMPLES FOR CHEMICAL ANALYSIS<br>0                                                                               |  | 20. SAMPLES FOR METALS<br>0                                         |  | 21. TOTAL CORE RECOVERED<br>0         |  |
| 22. DEPOSITION OF SOIL<br>0                                                                                          |  | 23. MONITORING WELL<br>N/A                                          |  | 24. OTHER COMMENTS<br>Phillip N. Hobb |  |

LOCATION SKETCH/COMMENTS

Witnessed By: Keith Enders

SCALE: Not to Scale

North

R.R. Track

Terms used to describe %

Trace - < 5%  
Few - 5-10%  
Little - 15-25%  
Some - 20-35%  
Mostly - 50-100%

SLD 72417

SLD 72421

SLD 72420

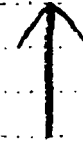
Moved boring 6' to NE due to scrap pile.  
SLD 72419

SLD 72419

SLD 72419

EM 1110-1-4000  
1 Nov 88

| HTRW DRILLING LOG                |                                                                                             | CONTINUATION SHEET                                                                                                        |                         | JOB NO. 72419 |                                    |
|----------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------|------------------------------------|
| DATE 01/24/02                    |                                                                                             | OPERATOR Phillip Statler                                                                                                  |                         | SHEET 2       |                                    |
| DEPTH                            | DESCRIPTION OF MATERIAL                                                                     | REMARKS                                                                                                                   | SLD                     | BLW COUNT     | REMARKS                            |
| 4'00"                            | silty clay w/ few med. gravel, med. silt to stiff, med. plastic, dk. brn., dry, trace glass |                                                                                                                           | SLD 72419 11-13-02      | 9             |                                    |
| 5'00"                            | some cinders, some slag, few bricks.                                                        |                                                                                                                           |                         | 18            |                                    |
| 6'00"                            |                                                                                             |                                                                                                                           |                         | 12            |                                    |
| 6'300"                           |                                                                                             |                                                                                                                           | SLD 72437 11-05         | 7             |                                    |
| 6'600"                           | mainly cinders, some blk slag, few bricks, trace wood frags.                                |                                                                                                                           |                         | 6             |                                    |
| 6'900"                           |                                                                                             |                                                                                                                           |                         | 5             |                                    |
| 6'800"                           |                                                                                             |                                                                                                                           | SLD 72419 archive 11-20 | 4             | archive sample from 3.0 - 3.5' BGS |
| 6'400"                           |                                                                                             |                                                                                                                           |                         | 3             |                                    |
| 5'800"                           | cinders, slag, and bricks absent. Wood frags absent.                                        |                                                                                                                           |                         | 6             |                                    |
| 6'100"                           |                                                                                             |                                                                                                                           | SLD 72419 archive 11-20 | 4             | archive sample from 4.8 - 5.3' BGS |
| 5'900"                           |                                                                                             |                                                                                                                           |                         | 3             |                                    |
| N/A                              |                                                                                             |                                                                                                                           |                         | 5             |                                    |
| TD: 6.0' BGS<br>11-13-02<br>1120 |                                                                                             | Back ground:<br>NAT: 6200<br>PID: 0.0<br>Back-filled<br>boring w/<br>3.0 bags of<br>bentonite<br>Chips: Capped<br>w/soil. |                         |               |                                    |

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                       |  |                                        |  | St. Louis                                                           |  | HOLE NUMBER<br>SLD 72420                   |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------|--|---------------------------------------------------------------------|--|--------------------------------------------|--|
| 1. COMPANY NAME<br>Shaw E & I                                                                                                                                                                                                                                                                           |  | 2. DRILLING CONTRACTOR<br>M.E.S., Inc. |  | 3. SHEET<br>1                                                       |  | 4. SHEETS<br>2                             |  |
| 5. PROJECT<br>FUSRAP / SLDs                                                                                                                                                                                                                                                                             |  |                                        |  | 6. LOCATION<br>PSC Metals North Tract V.P.                          |  |                                            |  |
| 7. NAME OF DRILLER<br>Chris Anthony                                                                                                                                                                                                                                                                     |  |                                        |  | 8. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120            |  |                                            |  |
| 9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using 9/16" HSA and<br>3" x 3" split spoon                                                                                                                                                                                   |  |                                        |  | 10. HOLE LOCATION<br>see location sketch                            |  |                                            |  |
| 11. SURFACE ELEVATION<br>N/A                                                                                                                                                                                                                                                                            |  |                                        |  | 12. DATE STARTED<br>11-18-02                                        |  |                                            |  |
| 13. DATE COMPLETED<br>11-18-02                                                                                                                                                                                                                                                                          |  |                                        |  | 14. DATE CORRECTED<br>11-18-02                                      |  |                                            |  |
| 15. DEPTH DRILLED INTO ROCK<br>N/A                                                                                                                                                                                                                                                                      |  |                                        |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A |  |                                            |  |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                                                                                                                                                                                                                                                     |  |                                        |  | 18. TOTAL NUMBER OF CORE BOXES<br>0                                 |  |                                            |  |
| 19. SAMPLES FOR CHEMICAL ANALYSIS<br>0                                                                                                                                                                                                                                                                  |  | 20. SAMPLES FOR METALS<br>0            |  | 21. OTHER (SPECIFY)<br>RAD                                          |  | 22. TOTAL CORE RECOVERED<br>0%             |  |
| 23. DEPOSITION OF SOIL<br>0                                                                                                                                                                                                                                                                             |  | 24. MONITORING WELL<br>N/A             |  | 25. OTHER (SPECIFY)<br>NA                                           |  | 26. SIGNATURE OF INSPECTOR<br>Keith Enders |  |
| 27. LOCATION SKETCH/COMMENTS<br>North                                                                                                                                                                                                                                                                   |  |                                        |  | 28. WITNESSED BY: Keith Enders                                      |  |                                            |  |
|                                                                                                                                                                                                                       |  |                                        |  | 29. SCALE: Not to Scale                                             |  |                                            |  |
|                                                                                                                                                                                                                                                                                                         |  |                                        |  | Terms used to describe %                                            |  |                                            |  |
|                                                                                                                                                                                                                                                                                                         |  |                                        |  | Trace - < 5%                                                        |  |                                            |  |
|                                                                                                                                                                                                                                                                                                         |  |                                        |  | Few - 5-10%                                                         |  |                                            |  |
|                                                                                                                                                                                                                                                                                                         |  |                                        |  | Little - 15-25%                                                     |  |                                            |  |
| Some - 20-35%                                                                                                                                                                                                                                                                                           |  |                                        |  | Mostly - 50-100%                                                    |  |                                            |  |
| <div style="position: absolute; left: 340px; top: 690px;">SLD 72421</div> <div style="position: absolute; left: 650px; top: 670px;">SLD 72418</div> <div style="position: absolute; left: 540px; top: 760px;">SLD 72420</div> <div style="position: absolute; left: 730px; top: 840px;">SLD 72419</div> |  |                                        |  |                                                                     |  |                                            |  |
| FUSRAP / SLDs                                                                                                                                                                                                                                                                                           |  |                                        |  | SLD 72420                                                           |  |                                            |  |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                                                              |                 |               | HOLE NUMBER |                                                                                  |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------|-------------|----------------------------------------------------------------------------------|
| PROJECT                                |                                                                                                                                                              | INSPECTOR       |               | SHEET       |                                                                                  |
| FUSRAP/SLOS                            |                                                                                                                                                              | Phillip Statler |               | 2 OF 2      |                                                                                  |
| DEPTH                                  | DESCRIPTION OF MATERIAL                                                                                                                                      | DEPTH           | RECOVERY      | BLOW COUNT  | REMARKS                                                                          |
| 0.0                                    | Silty clay w/ few med to coarse gravel, med plus, dk brn, trace cinders, trace slag, few concrete frags, few wood frags, trace grey slag, trace brick frags. | 5800<br>0.0     | 2.0 / 2.0     | 20          |                                                                                  |
| 1.0                                    |                                                                                                                                                              | 5400<br>0.0     |               | 17          |                                                                                  |
| 2.0                                    |                                                                                                                                                              | 5600<br>0.0     |               | 57          |                                                                                  |
| 3.0                                    |                                                                                                                                                              | 6300<br>0.0     |               | 20          |                                                                                  |
| 4.0                                    | few concrete frags, few limestone frags, trace coal.                                                                                                         | 5700<br>0.0     | 2.0 / 2.0     | 16          |                                                                                  |
| 5.0                                    |                                                                                                                                                              | 6400<br>0.0     |               | 19          |                                                                                  |
| 6.0                                    |                                                                                                                                                              | 6200<br>0.0     |               | 30          |                                                                                  |
| 7.0                                    |                                                                                                                                                              | 6200<br>0.0     |               | 26          |                                                                                  |
| 8.0                                    | See SLD 72420 B for information.                                                                                                                             | N/A             | Poor recovery | 9           | Poor Recovery                                                                    |
| 9.0                                    |                                                                                                                                                              | N/A             |               | 14          | Moved over                                                                       |
| 10.0                                   |                                                                                                                                                              | N/A             |               | 54          | 6', augered down to 4.0' BGS, and drove spoon-                                   |
| 11.0                                   |                                                                                                                                                              | N/A             |               | 22          |                                                                                  |
| 12.0                                   | TD: 6.0' BGS 11-18-02 1435                                                                                                                                   |                 |               |             | Background NAT: 5900 PDB: 0.0 Back-filled boring w/ 3.0 bags of bentonite chips. |

FUSRAP/SLOS

SLD 72420

# HTRW DRILLING LOG

DISTRICT St. Louis

WELL NUMBER SLD 72420 B

|                                                     |  |                                                                                                                                                                                                                           |  |                                                                                                                    |  |                                                                                                                                                                                 |  |
|-----------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 1. COMPANY NAME<br>Shaw E + I                       |  | 2. DRILLING SUBCONTRACTOR<br>MES, Inc.                                                                                                                                                                                    |  | 3. PROJECT<br>FUS RAP / SLDS                                                                                       |  | 4. LOCATION<br>ASC Metals North Tract V.R<br>City of Venice, IL VP P.S.                                                                                                         |  |
| 5. NAME OF DRILLER<br>Chris Anthony                 |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120                                                                                                                                                                  |  | 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using 4" HSA and<br>3" x 2" Split Spoon |  | 8. HOLE LOCATION<br>See location sketch                                                                                                                                         |  |
| 9. SURFACE ELEVATION<br>N/A                         |  | 10. DATE STARTED<br>11-18-02                                                                                                                                                                                              |  | 11. DATE COMPLETED<br>11-18-02                                                                                     |  | 12. OVERBURDEN THICKNESS<br>N/A                                                                                                                                                 |  |
| 13. DEPTH DRILLED INTO ROCK<br>N/A                  |  | 14. TOTAL DEPTH OF HOLE<br>6.0' BGS                                                                                                                                                                                       |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br>N/A                                                                           |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A                                                                                                             |  |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A |  | 18. GEOTECHNICAL SAMPLES<br>DISTURBED <input checked="" type="checkbox"/> UNDISTURBED <input checked="" type="checkbox"/>                                                                                                 |  | 19. TOTAL NUMBER OF CORE BOXES<br>0                                                                                |  | 20. SAMPLES FOR CHEMICAL ANALYSIS<br>TOC <input checked="" type="checkbox"/> METALS <input checked="" type="checkbox"/> OTHER (SPECIFY) <input checked="" type="checkbox"/> RAP |  |
| 21. TOTAL CORE RECOVERY<br>0%                       |  | 22. DISPOSITION OF HOLE<br>Yes <input checked="" type="checkbox"/> SACKFILLED <input checked="" type="checkbox"/> MONITORING WELL <input checked="" type="checkbox"/> OTHER (SPECIFY) <input checked="" type="checkbox"/> |  | 23. SIGNATURE OF INSPECTOR<br>Edward K. Enners                                                                     |  | 24. LOCATION SKETCH/COMMENTS<br>Witnessed by: Keith Enders                                                                                                                      |  |

LOCATION SKETCH/COMMENTS Witnessed by: Keith Enders SCALE: Not to scale

North

Edward K. Enners

SLD  
72421

SLD  
72420

SLD  
72420B

Moved over 6' SSE due to refusal

SLD  
72419

PROJECT FUS RAP / SLDS

WELL NO. SLD 72420 B

PROJECT FUSRAP/SLDS

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                |  | DISTRICT <u>St. Louis</u>                                               |  | HOLE NUMBER <u>SLD 72421</u>   |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------|--|-------------------------------------------------------------------------|--|--------------------------------|--|
| 1. COMPANY NAME <u>Shaw E &amp; I</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                |  | 2. DRILLING SUBCONTRACTOR <u>MES, Inc.</u>                              |  | SHEET <u>1</u> OF <u>2</u>     |  |
| 3. PROJECT <u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                |  | 4. LOCATION <u>PSC Metals North Tract V.P.</u>                          |  |                                |  |
| 5. NAME OF DRILLER <u>Chris Anthony</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                |  | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>Diedrich D-120</u>            |  |                                |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>Diedrich D-120</u><br><u>using 4 1/2" HSA and</u><br><u>3" x 3" split spoon.</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                |  | 8. HOLE LOCATION <u>See location sketch</u>                             |  |                                |  |
| 9. SURFACE ELEVATION <u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                |  | 10. DATE STARTED <u>2-18-03</u>                                         |  |                                |  |
| 11. DATE COMPLETED <u>2-18-03</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                |  | 12. OVERBURDEN THICKNESS <u>N/A</u>                                     |  |                                |  |
| 13. DEPTH DRILLED INTO ROCK <u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u> |  |                                |  |
| 15. TOTAL DEPTH OF HOLE <u>6.0 FT BGS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                |  | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u>                 |  |                                |  |
| 17. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | 18. DISTURBED  |  | 19. UNDISTURBED                                                         |  | 20. TOTAL NUMBER OF CORE BOXES |  |
| 21. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | 22. TOC        |  | 23. METALS                                                              |  | 24. OTHER (SPECIFY)            |  |
| 25. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | 26. BACKFILLED |  | 27. MONITORING WELL                                                     |  | 28. OTHER (SPECIFY)            |  |
| 29. SIGNATURE OF INSPECTOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | 30. YES        |  | 31. N/A                                                                 |  | 32. N/A                        |  |
| <div style="display: flex; justify-content: space-between;"> <div> <p>LOCATION SKETCH/COMMENTS</p> <p>Witnessed by: <u>Susan Adams</u></p> <p>SCALE: Not to scale</p> </div> <div style="border: 1px solid black; padding: 5px; width: 200px;"> <p>Terms used to describe %</p> <p>Trace - &lt; 5 %</p> <p>Few - 5 - 10 %</p> <p>Little - 15 - 25 %</p> <p>Some - 20 - 35 %</p> <p>Mostly - 50 - 100 %</p> </div> </div> <div style="margin-top: 20px;"> <p style="text-align: center;"><u>R.R. Tracks</u></p> <p style="text-align: center;"><u>SLD 72422</u></p> <p style="text-align: center;"><u>SLD 72421</u></p> <p style="text-align: center;"><u>(trench)</u></p> </div> |  |                |  |                                                                         |  |                                |  |
| PROJECT <u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                |  |                                                                         |  | HOLE NO. <u>SLD 72421</u>      |  |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                 |                                                                                                    |                     |                       |                             | HOLE NUMBER<br>SLD 72421 |                                                                                                                                                          |
|----------------------------------------|---------------------------------|----------------------------------------------------------------------------------------------------|---------------------|-----------------------|-----------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROJECT<br>FUSRAP / SLDs               |                                 | INSPECTOR<br>Phillip Statler                                                                       |                     | SHEET<br>2 of 2       |                             | SHEET 3                  |                                                                                                                                                          |
| DEPTH<br>FEET                          | DEPTH<br>METERS                 | DESCRIPTION OF STRATIGRAPHY                                                                        | WATER LEVEL<br>FEET | WATER LEVEL<br>METERS | WATER LEVEL<br>FEET         | WATER LEVEL<br>METERS    | REMARKS                                                                                                                                                  |
| SM                                     | 1.0                             | Silty fine sand w/ some fine to coarse gravel, some poorly graded, dk brn, moist, few metal frags. | 6000<br>0.0         | (3500)                | SLD 72421<br>72421<br>72421 | N/A                      | * readings in bowl                                                                                                                                       |
|                                        |                                 |                                                                                                    | 6200<br>0.0         |                       |                             | N/A                      |                                                                                                                                                          |
|                                        |                                 |                                                                                                    | 6500<br>0.0         |                       |                             | N/A                      |                                                                                                                                                          |
|                                        | 2.0                             |                                                                                                    | 7000<br>0.0         | (3700)                | SLD 72421<br>72421<br>72421 | N/A                      |                                                                                                                                                          |
|                                        |                                 |                                                                                                    | 10000<br>0.0        |                       |                             | N/A                      |                                                                                                                                                          |
|                                        |                                 |                                                                                                    | 20000<br>0.0        |                       |                             | N/A                      |                                                                                                                                                          |
| CL                                     | 3.0                             | few brick frags                                                                                    | 17000<br>0.0        |                       |                             | N/A                      |                                                                                                                                                          |
|                                        |                                 |                                                                                                    | 17000<br>0.0        | (4300)                | SLD 72421<br>72421<br>72421 | N/A                      |                                                                                                                                                          |
|                                        |                                 |                                                                                                    | 16000<br>0.0        |                       |                             | N/A                      |                                                                                                                                                          |
|                                        | 5.0                             |                                                                                                    | 15000<br>0.0        |                       |                             | N/A                      |                                                                                                                                                          |
|                                        |                                 |                                                                                                    | 15000<br>0.0        |                       |                             | N/A                      |                                                                                                                                                          |
|                                        | 6.0                             |                                                                                                    | 13000<br>0.0        | (3700)                | SLD 72421<br>72421<br>72421 | N/A                      |                                                                                                                                                          |
|                                        | TD: 6.0' BGS<br>2-18-03<br>1600 |                                                                                                    |                     |                       |                             |                          | Background:<br>NAT: 5104<br>PID: 0.0<br>Backfilled boring branch w/ native material in reverse order it was removed (2.5' soil segregation in each pile) |





| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                               |  |                                        |                                                                     | DISTRICT<br>St. Louis      | HOLE NUMBER<br>SLD 72422 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------|---------------------------------------------------------------------|----------------------------|--------------------------|
| 1. COMPANY NAME<br>Shaw E & I                                                                                                                                                                                                                                                                                                                   |  | 2. DRILLING SUBCONTRACTOR<br>MES, Inc. |                                                                     | SHEET<br>1 of 2            |                          |
| 3. PROJECT<br>FUSRAP/SLDS                                                                                                                                                                                                                                                                                                                       |  |                                        | 4. LOCATION<br>PSC Metals North Tract V.P.                          |                            |                          |
| 5. NAME OF DRILLER<br>Chris Anthony                                                                                                                                                                                                                                                                                                             |  |                                        | 6. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120            |                            |                          |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using 3" RHSA and<br>3" x 3" split spear.                                                                                                                                                                                                                            |  |                                        | 8. HOLE LOCATION<br>See location sketch                             |                            |                          |
| 9. SURFACE ELEVATION<br>N/A                                                                                                                                                                                                                                                                                                                     |  |                                        | 10. DATE STARTED<br>2-18-03                                         |                            |                          |
| 11. DATE COMPLETED<br>2-19-03                                                                                                                                                                                                                                                                                                                   |  |                                        | 12. OVERBURDEN THICKNESS<br>N/A                                     |                            |                          |
| 13. DEPTH DRILLED INTO ROCK<br>N/A                                                                                                                                                                                                                                                                                                              |  |                                        | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A |                            |                          |
| 15. TOTAL DEPTH OF HOLE<br>6.0 FT BGS                                                                                                                                                                                                                                                                                                           |  |                                        | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                 |                            |                          |
| 17. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                        |  | 18. TOTAL NUMBER OF CORE BORES         |                                                                     | 19. TOTAL CORE RECOVERY    |                          |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                               |  | 21. TOTAL CORE RECOVERY                |                                                                     | 22. SIGNATURE OF INSPECTOR |                          |
| 23. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                         |  | 24. SIGNATURE OF INSPECTOR             |                                                                     | 25. SCALE: Not to Scale    |                          |
| <div style="display: flex; justify-content: space-between;"> <div> <p>LOCATION SKETCH/COMMENTS</p> <p>Witnessed by: Susan Adams</p> <p>Susan L. Adams</p> </div> <div> <p>Terms used to describe %</p> <p>Trace - &lt; 5 %</p> <p>Few - 5 - 10 %</p> <p>Little - 15 - 25 %</p> <p>Some - 20 - 35 %</p> <p>Mostly - 50 - 100 %</p> </div> </div> |  |                                        |                                                                     |                            |                          |
| <div style="display: flex; justify-content: space-between;"> <div> <p>Model boring SW due to rubble/tracks</p> <p>SLD 72422</p> </div> <div> <p>R.R. Tracks</p> <p>SLD 72422</p> </div> </div>                                                                                                                                                  |  |                                        |                                                                     |                            |                          |
| PROJECT<br>FUSRAP/SLDS                                                                                                                                                                                                                                                                                                                          |  |                                        |                                                                     |                            | HOLE NO.<br>SLD 72422    |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                    |                   |              |                 |                   |                                                                                                                                                                                            | LOG NO. |
|----------------------------------------|----------------------------------------------------------------------------------------------------|-------------------|--------------|-----------------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| PROJECT                                |                                                                                                    | INVESTIGATOR      |              | DATE            |                   | SHEET                                                                                                                                                                                      |         |
| FUSRAP / SLDS                          |                                                                                                    | Philip Statter    |              | 2               |                   | 2                                                                                                                                                                                          |         |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                                           | WATER CONTENT (%) | RECOVERY (%) | GRAIN SIZE (mm) | WATER CONTENT (%) | REMARKS                                                                                                                                                                                    |         |
| 0.0                                    | Silty fine sand w/ some med. gravel, med. conc. poorly graded dk. brn. wet, few cinders, few slag. | 4700 0.0          | 2.0          | 00-25 1200      | 38                | SLD 72422                                                                                                                                                                                  |         |
| 1.0                                    |                                                                                                    | 4500 0.0          | 2.0          | 25-10 1303      | 35                |                                                                                                                                                                                            |         |
| 2.0                                    | Some brick frags                                                                                   | 4900 0.0          | 2.0          | 10-15 1305      | 12                |                                                                                                                                                                                            |         |
| 3.0                                    |                                                                                                    | 5000 0.0          |              | 15-20 1307      | 11                | SLD 72422                                                                                                                                                                                  |         |
| 4.0                                    |                                                                                                    | 4800 0.0          | 2.0          | 20-25 1320      | 6                 |                                                                                                                                                                                            |         |
| 5.0                                    |                                                                                                    | 4800 0.0          | 2.0          | 25-20 1323      | 4                 |                                                                                                                                                                                            |         |
| 6.0                                    | Silty clay, med. fine, med. plat. (H. brn.) moist, few cinders, few slag.                          | 4800 0.0          | 2.0          | 30-35 1335      | 6                 |                                                                                                                                                                                            |         |
| 7.0                                    |                                                                                                    | 4800 0.0          |              | 25-40 1327      | 8                 | SLD 72422                                                                                                                                                                                  |         |
| 8.0                                    |                                                                                                    | 4300 0.0          | 1.7          | 40-45 1335      | 7                 |                                                                                                                                                                                            |         |
| 9.0                                    | Few limestone frags.                                                                               | 4300 0.0          | 2.0          | 45-50 1337      | 6                 |                                                                                                                                                                                            |         |
| 10.0                                   |                                                                                                    | 4300 0.0          |              | 50-55 1340      | 6                 | SLD 72422                                                                                                                                                                                  |         |
| 11.0                                   |                                                                                                    | 4600 0.0          | NO RECOVERY  | 55-57           | 5                 | (1345)                                                                                                                                                                                     |         |
| 12.0                                   | TD: 6.0' BGS<br>2-19-03<br>1340                                                                    |                   |              |                 |                   | Background:<br>NAT: 4,495<br>PID: 0.0<br>Backfilled<br>boring w/<br>3.0 bags of<br>bentonite<br>chips.<br>*Samples<br>will be coun-<br>ted w/ gas<br>proportional<br>meter. (see<br>sheet) |         |

RADIOLOGICAL SURVEY FORM

Sample ID SLD 72422 C2  
Witness: Susan Adams

Date Sample was collected: 2-19-03

Date Sample was analyzed: 2-25-03

Instrument #1 Background 4495 cpm

Instrument #2 Background 4879 cpm

Count rate of Empty Pan: Beta 94 cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2;<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |                      |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|----------------------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |                      |
| 0-6                      | 4700                                                      | 205                               | 4332                                                  | -547                          | 106                                | 12       | SLD 72422            |
| 6-12                     | 4500                                                      | 5                                 | 4367                                                  | -512                          | 115                                | 21       |                      |
| 12-18                    | 4900                                                      | 405                               | 4883                                                  | 4                             | 157                                | 63       |                      |
| 18-24                    | 5000                                                      | 505                               | 5507                                                  | 628                           | 165                                | 71       | SLD 72440            |
| 24-30                    | 4800                                                      | 305                               | 4943                                                  | 64                            | 124                                | 30       |                      |
| 30-36                    | 4800                                                      | 305                               | 4713                                                  | -166                          | 133                                | 39       |                      |
| 36-42                    | 4800                                                      | 305                               | 5002                                                  | 123                           | 166                                | 72       | SLD 72422<br>archive |
| 42-48                    | 4800                                                      | 305                               | 5112                                                  | 233                           | 143                                | 49       |                      |
| 48-54                    | 4300                                                      | -195                              | 4896                                                  | 17                            | 143                                | 49       |                      |
| 54-60                    | 4300                                                      | -195                              | 4687                                                  | -192                          | 118                                | 24       | SLD 72422<br>archive |
| 60-66                    | 4300                                                      | -195                              | 4657                                                  | -222                          | 120                                | 26       |                      |
| 66-72                    | 4600                                                      | 105                               | 4519                                                  | -360                          | 98                                 | 4        |                      |

#

1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                              | HOLE NUMBER  |                |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------|----------------|
| PROJECT: FUS RAP / SLOS                |                                                                                                              | SLB 72423    |                |
| INSPECTOR: Phillip Statter             |                                                                                                              | SHEET 2 OF 2 |                |
| DEPTH (FEET)                           | DESCRIPTION OF MATERIALS                                                                                     | RECOVERY (%) | SLM CORRECTION |
| 1.0                                    | silty fine sand w/ few med. to coarse gravel, med. dense poorly graded, dk. brn, dry, few cinders, few slag. | 6100 0.0     | 11             |
|                                        |                                                                                                              | 6400 0.0     | 10             |
|                                        |                                                                                                              | 6300 0.0     | 10             |
|                                        |                                                                                                              | 6400 0.0     | 9              |
| 2.0                                    | cinders and slag increasing                                                                                  | 6500 0.0     | 10             |
|                                        |                                                                                                              | 6900 0.0     | 6              |
|                                        |                                                                                                              | 6800 0.0     | 7              |
|                                        |                                                                                                              | N/A          | 5              |
| 3.0                                    | some brick frags.                                                                                            | 6000 0.0     | 8              |
|                                        |                                                                                                              | 6800 0.0     | 9              |
|                                        |                                                                                                              | 7000 0.0     | 15             |
|                                        |                                                                                                              | 7000 0.0     | 15             |
| 4.0                                    | no recovery                                                                                                  |              |                |
|                                        |                                                                                                              |              |                |
|                                        |                                                                                                              |              |                |
|                                        |                                                                                                              |              |                |
| 5.0                                    | silty clay, med. stiff to stiff, med. plast. H. brn. to dk. brn, dry, some fine sand, trace wood frags.      | 1.6 / 2.0    |                |
|                                        |                                                                                                              |              |                |
|                                        |                                                                                                              |              |                |
|                                        |                                                                                                              |              |                |
| 6.0                                    | no recovery                                                                                                  |              |                |
|                                        |                                                                                                              |              |                |
|                                        |                                                                                                              |              |                |
|                                        |                                                                                                              |              |                |
| 7.0                                    | no recovery                                                                                                  |              |                |
|                                        |                                                                                                              |              |                |
|                                        |                                                                                                              |              |                |
|                                        |                                                                                                              |              |                |
| 8.0                                    | no recovery                                                                                                  |              |                |
|                                        |                                                                                                              |              |                |
|                                        |                                                                                                              |              |                |
|                                        |                                                                                                              |              |                |
| 9.0                                    | no recovery                                                                                                  |              |                |
|                                        |                                                                                                              |              |                |
|                                        |                                                                                                              |              |                |
|                                        |                                                                                                              |              |                |
| 10.0                                   | no recovery                                                                                                  |              |                |
|                                        |                                                                                                              |              |                |
|                                        |                                                                                                              |              |                |
|                                        |                                                                                                              |              |                |

FUS RAP / SLOS

SLB 72423

ENG FORM 3056A-2, AUG 94

# TRW DRILLING LOG

ST. LOUIS

72424  
SLD 72424

|                                                                                                                         |                    |                                                                     |                                       |                                                 |                               |
|-------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------|---------------------------------------|-------------------------------------------------|-------------------------------|
| 1. COMPANY NAME<br>Shaw E & I                                                                                           |                    | 2. DRILLING CONTRACTOR<br>M.E.S., Inc.                              |                                       | 3. SHEET<br>1 of 2                              |                               |
| 4. PROJECT<br>FUSRAP / SLOS                                                                                             |                    | 5. LOCATION<br>PSC Metals North Tract V.P.                          |                                       |                                                 |                               |
| 6. NAME OF DRILLER<br>Chris Anthony                                                                                     |                    | 7. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120            |                                       |                                                 |                               |
| 8. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using 4" V.A.S.A. and<br>3" x 2' split spoon |                    | 9. HOLE LOCATION<br>see location sketch                             |                                       |                                                 |                               |
|                                                                                                                         |                    | 10. SURFACE ELEVATION<br>N/A                                        |                                       |                                                 |                               |
| 11. DATE STARTED<br>11-13-02                                                                                            |                    | 12. DATE COMPLETED<br>11-13-02                                      |                                       |                                                 |                               |
| 13. OVERBURDEN THICKNESS<br>N/A                                                                                         |                    | 14. DEPTH TO GROUNDWATER ENCOUNTERED<br>N/A                         |                                       |                                                 |                               |
| 15. DEPTH DRILLED INTO SOIL<br>N/A                                                                                      |                    | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A |                                       |                                                 |                               |
| 17. TOTAL DEPTH OF HOLE<br>6.0 FT GGS                                                                                   |                    | 18. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                 |                                       |                                                 |                               |
| 19. GEOTECHNICAL SAMPLES<br>0                                                                                           | 20. DISTURBED<br>0 | 21. UNDISTURBED<br>0                                                | 22. TOTAL NUMBER OF CORE SAMPLES<br>0 |                                                 |                               |
| 23. SAMPLES FOR CHEMICAL ANALYSIS<br>0                                                                                  | 24. ROCK<br>0      | 25. METAL<br>0                                                      | 26. OTHER SPECIFY<br>RAD              | 27. OTHER SPECIFY<br>0                          | 28. TOTAL CORE RECOVERED<br>0 |
| 29. REPOSITION OF CORE<br>0                                                                                             | 30. SAMPLED<br>Yes | 31. MONITORING VEL.<br>N/A                                          | 32. OTHER SPECIFY<br>N/A              | 33. CONTAINER OF SAMPLES<br>All this in Plastic |                               |

LOCATION SKETCH/COMMENTS  
North

Witnessed By: Keith Ender

SCALE: Not to Scale

Terms used to describe %

Trace - < 5%  
Few - 5-10%  
Little - 15-25%  
Some - 20-35%  
Mostly - 50-100%

Moved 10' to SW PS.  
due to pipes (scrap)

PS X SLD  
72424

Trail

SLD  
72424 ac

Block

Bldg

SLD  
72427

FUSRAP - SLOS

72424  
SLD 72424

| BOTH DRILLING LOG |                                                                                                                                               | CONTINUATION SHEET                           |                            | SLO 72424                                           |                                                                                                           |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| SUS 2200 / SLO 25 |                                                                                                                                               | INSPECTOR Phillip Statler                    |                            | SHEET 2 OF 2                                        |                                                                                                           |
| DEPTH             | DESCRIPTION OF MATERIAL                                                                                                                       | WATER                                        | RECOVERY                   | SLUG                                                | REMARKS                                                                                                   |
| CL                | silty clay w/ few med gravel, very stiff to hard, med. plastic, H, brn, dry, trace cinders, trace brick frags, trace metal frags, trace wood. | 6100 0.0<br>6200 0.0<br>6300 0.0<br>5900 0.0 | 2.0<br>2.0                 | SLUG 72424 1430<br>SLUG 72424 1430                  | 14<br>38<br>30<br>61                                                                                      |
| SM                | silty fine sand w/ few med. gravel, loose to med. dense, dk brn, to blk, dry, some brick frags, few slag, few cinders, few coal frags.        | 6000 0.0<br>5900 0.0<br>6000 0.0             | 1.5<br>2.0                 | SLUG 72424 1430<br>archive sample from 3.0-3.5' BGS | 13<br>19<br>12                                                                                            |
| N/A               | SEE SLO 72424B for details                                                                                                                    | N/A<br>N/A<br>N/A<br>N/A<br>N/A<br>N/A       | no recovery<br>No Recovery |                                                     | 8<br>4<br>11<br>10<br>3                                                                                   |
|                   | TD : 6.0' BGS<br>11-13-02<br>1430                                                                                                             |                                              |                            |                                                     | Background:<br>Nat: 6200<br>PID: 0.0<br>Backfilled boring w/ 3.0 bags of bentonite chips, capped w/ salt. |



# -TRW DRILLING LOG

STC

St. Louis

SLD 72424B

|                                                                                                                 |  |                                                                     |  |                    |  |
|-----------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------|--|--------------------|--|
| 1. COMPANY NAME<br>Shaw F & I                                                                                   |  | 2. DRILLING CONTRACTOR<br>M.E.S., Inc.                              |  | 3. SHEET<br>1 of 2 |  |
| 4. PROJECT<br>FUSRAO / SLDs                                                                                     |  | 5. LOCATION<br>PSC Metals North Tract V.P.                          |  |                    |  |
| 6. NAME OF DRILLER<br>Chris Anthony                                                                             |  | 7. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120            |  |                    |  |
| 8. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using HSA and<br>3" x 2" split spoon |  | 9. HOLE LOCATION<br>See location sketch                             |  |                    |  |
| 10. DATE STARTED<br>11-13-02                                                                                    |  | 11. DATE COMPLETED<br>11-13-02                                      |  |                    |  |
| 12. DEPTH SKILLED INTO SOIL<br>N/A                                                                              |  | 13. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A |  |                    |  |
| 14. TOTAL DEPTH OF HOLE<br>6.0 FT BGS                                                                           |  | 15. OTHER WATER LEVEL MEASUREMENTS, SPECIFY<br>N/A                  |  |                    |  |
| 16. 20 TECHNICAL SAMPLES<br>DISTURBED<br>N/A                                                                    |  | 17. TOTAL NUMBER OF CORE BOXES<br>0                                 |  |                    |  |
| 18. SAMPLES FOR CHEMICAL ANALYSIS<br>N/A                                                                        |  | 19. TOTAL CORE RECOVERED<br>0                                       |  |                    |  |
| 20. DEPTH OF CORE<br>N/A                                                                                        |  | 21. SIGNATURE OF INSPECTOR<br>Keith Ender                           |  |                    |  |

LOCATION SKETCH/COMMENTS  
North.

Witnessed By: Keith Ender

Terms used to describe %  
Trace - < 5%  
Few - 5-10%  
Little - 15-25%  
Some - 20-35%  
Mostly - 50-100%

SLD 72424B  
SLD 72424  
(moved over 1' to W. due to refusal from 4.0-6.0' BGS in SLD 72424)  
SLD 72426 QC  
SLD 72427  
Trailer  
Block Bldg.

FUSRAO / SLDs

SLD 72424B

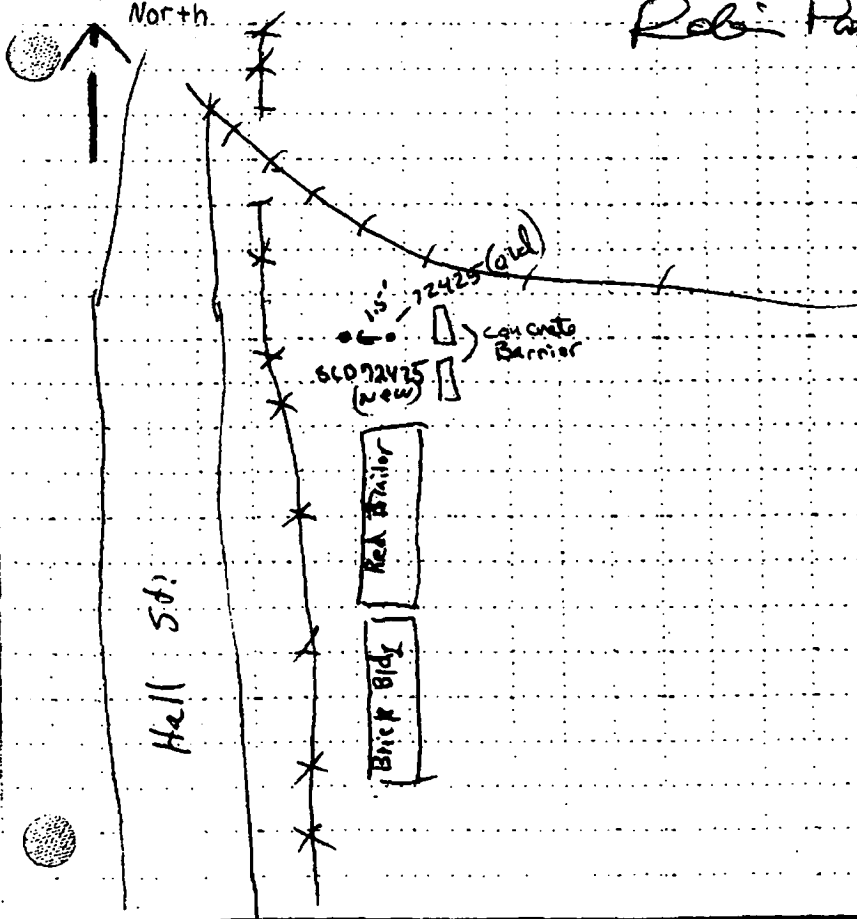
24G CRM 12501-2 24G 2

|                                                                                                          |                        |                                                                            |                                            |
|----------------------------------------------------------------------------------------------------------|------------------------|----------------------------------------------------------------------------|--------------------------------------------|
| <b>ITRW DRILLING LOG</b>                                                                                 |                        | City: <b>St. Louis</b>                                                     | Hole Number: <b>SLD 72425</b>              |
| 1. COMPANY NAME<br><b>Shaw F &amp; I</b>                                                                 |                        | 2. DRILLING CONTRACTOR<br><b>MES Inc</b>                                   |                                            |
| 3. PROJECT<br><b>FUSRAP / SLDS</b>                                                                       |                        | 4. LOCATION<br><b>PSC Metals N. Tract 3</b>                                |                                            |
| 5. NAME OF DRILLER<br><b>Chris Anthony</b>                                                               |                        | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><b>Diedrich D-120</b>            |                                            |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><b>Using 3 1/4" HSA and 3" x 2' Split Spoon</b> |                        | 8. HOLE LOCATION<br><b>See location sketch</b>                             |                                            |
| 9. SURFACE ELEVATION<br><b>4-12-03</b>                                                                   |                        | 10. DATE STARTED<br><b>11-7-02</b>                                         |                                            |
| 11. DATE COMPLETED<br><b>11-6-02</b>                                                                     |                        | 12. DATE COMPLETED<br><b>11-2-02</b>                                       |                                            |
| 13. OVERBURDEN THICKNESS<br><b>N/A</b>                                                                   |                        | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><b>N/A</b> |                                            |
| 15. DEPTH DRILLED INTO ROCK<br><b>N/A</b>                                                                |                        | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><b>N/A</b>                 |                                            |
| 17. TOTAL DEPTH OF HOLE<br><b>FT BGS</b>                                                                 |                        | 18. TOTAL NUMBER OF CORE BOXES<br><b>0</b>                                 |                                            |
| 19. GEOTECHNICAL SAMPLES                                                                                 | DISTURBED<br><b>0</b>  | UNDISTURBED<br><b>0</b>                                                    | 20. TOTAL NUMBER OF CORE BOXES<br><b>0</b> |
| 21. SAMPLES FOR CHEMICAL ANALYSIS                                                                        | TOX<br><b>0</b>        | METALS<br><b>0</b>                                                         | OTHER SPECIFY<br><b>RAD</b>                |
| 22. DEPOSITION OF HOLE                                                                                   | SACRIFICED<br><b>0</b> | MONITORING WELL<br><b>0</b>                                                | OTHER SPECIFY<br><b>0</b>                  |
| 23. SIGNATURE OF INSPECTOR<br><b>Rob Pank</b>                                                            |                        | 24. SIGNATURE OF INSPECTOR<br><b>Rob Pank</b>                              |                                            |

### LOCATION SKETCH/COMMENTS

Witnessed By: **Rob Pank**

SCALE: Not to Scale



| Terms used to describe % |
|--------------------------|
| Trace - < 5%             |
| Few - 5 - 10%            |
| Little - 15 - 25%        |
| Some - 20 - 35%          |
| Mostly - 50 - 100%       |

|                                        |  |                           |  |
|----------------------------------------|--|---------------------------|--|
| PROJECT: <b>FUSRAP / SLDS</b>          |  | HOLE NO: <b>SLD 72425</b> |  |
| LOCATION: <b>PSC Metals N. Tract 3</b> |  | DATE: <b>11-2-02</b>      |  |

| HTRW DRILLING LOG (CONTINUATION SHEET) |              |                                                                                               |                      |                                        |                                 |                   | HOLE NUMBER<br>SLD 72425              |
|----------------------------------------|--------------|-----------------------------------------------------------------------------------------------|----------------------|----------------------------------------|---------------------------------|-------------------|---------------------------------------|
| PROJECT<br>FUSRAP/SLDS                 |              | INSPECTOR<br>Mark Cummins                                                                     |                      | SHEETS<br>2 of 2                       |                                 |                   |                                       |
| ELEV.<br>(1)                           | DEPTH<br>(2) | DESCRIPTION OF MATERIALS<br>(3)                                                               | FIELD NO.<br>(4) PID | CONVERSION<br>(5) SITE NO.<br>PID CORR | ANALYTICAL<br>SAMPLE NO.<br>(6) | BLOW COUNT<br>(7) | REMARKS<br>(8)                        |
|                                        |              | Gravel w/ little silty clay, coarse to fine, loose to med, Dry Grog, Dry, Poorly Graded. (GC) | 5900<br>0.0          | 2.0<br>2.0                             | SLD 72425<br>1335               | 7                 |                                       |
|                                        |              | SP                                                                                            | 5500<br>0.0          |                                        |                                 | 11                |                                       |
|                                        |              | Sand, Fine to med, Loose, Lt. Tan, wet, Poorly Graded. (SP)                                   | 5600<br>0.0          |                                        |                                 | 5                 |                                       |
|                                        |              | Silty clay, Few med to fine sand, med silt, Low plastic, Reddish Brown, Fe staining, Dry (CL) | 6200<br>0.0          |                                        | SLD 72443<br>1335               | 11                |                                       |
|                                        |              | Gravel w/ silt, Fine, Poorly Graded, not Dense, Grog, Damp (GM)                               | 5800<br>0.0          | 2.0<br>4.0                             |                                 | 21                |                                       |
|                                        |              | Silty sand, Loose, Poorly Graded, Dk, w/ few coarse gravel, some fine gravel size clasts (SM) | 5300<br>0.0          |                                        |                                 | 25                |                                       |
|                                        |              |                                                                                               | 5600<br>0.0          |                                        |                                 | 13                |                                       |
|                                        |              | Trace<br>Fines<br>MPC                                                                         | 5700<br>0.0          |                                        | SLD 72425<br>Archive<br>1340    | 8                 | Archive 3.5-4' BG                     |
|                                        |              | Trace<br>Fines<br>MPC                                                                         | 6400<br>0.0          | 1.4<br>2.0                             |                                 | 7                 |                                       |
|                                        |              |                                                                                               | 6200<br>0.0          |                                        |                                 | 10                |                                       |
|                                        |              | Silty clay, med silt, Low plasticity, Brown, Dry (CL)                                         | 6500<br>0.0          |                                        | MO 72425<br>Archive<br>1340     | 12                | Archive 4.9-5.4' BG                   |
|                                        |              | EOB 5.4' BG                                                                                   | NA                   | No<br>Recovery                         |                                 |                   | Dry 6200 NAT<br>0.0 PID               |
|                                        |              | 1345<br>11-7-02                                                                               |                      |                                        |                                 |                   | Backfilled<br>Hole w/ Barite<br>chips |

# TRW DRILLING LOG

St. Louis

SLD 72426 OC

|                                                                                                                      |                         |                                                                     |                                     |                           |                          |
|----------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------|-------------------------------------|---------------------------|--------------------------|
| 1. COMPANY NAME<br>Snow F & I                                                                                        |                         | 2. DRILLING CONTRACTOR<br>M.E.S., Inc.                              |                                     | 3. SHEET NUMBER<br>1 of 2 |                          |
| 4. PROJECT<br>FUSRAP / SLDs                                                                                          |                         | 5. LOCATION<br>PSC Metals North Tract V.P.                          |                                     |                           |                          |
| 6. NAME OF DRILLER<br>Chris Anthony                                                                                  |                         | 7. MANUFACTURER, DESIGNATION OF DRILL<br>Diedrich D-120             |                                     |                           |                          |
| 8. TYPES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using 3/4" HSA and<br>3" x 3" split spool |                         | 9. HOLE LOCATION<br>See location sketch                             |                                     |                           |                          |
| 10. DATE STARTED<br>11-13-02                                                                                         |                         | 11. DATE COMPLETED<br>11-13-02                                      |                                     |                           |                          |
| 12. DEPTH DRILL TO SOG<br>N/A                                                                                        |                         | 13. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A |                                     |                           |                          |
| 14. TOTAL DEPTH OF HOLE<br>6.0 FT BGS                                                                                |                         | 15. OTHER WATER LEVEL MEASUREMENTS, SPECIFY<br>N/A                  |                                     |                           |                          |
| 16. TESTED SAMPLES<br>0                                                                                              | 17. DISTURBED<br>0      | 18. UNDISTURBED<br>0                                                | 19. TOTAL NUMBER OF CORE BOXES<br>0 |                           |                          |
| 20. SAMPLES FOR CHEMICAL ANALYSIS<br>0                                                                               | 21. CORE RECOVERED<br>0 | 22. DEPOSITION OF CORE<br>Yes                                       | 23. MONITORING REL.<br>N/A          | 24. OTHER SPECIFY<br>RAD  | 25. OTHER SPECIFY<br>N/A |

LOCATION SKETCH/COMMENTS  
North

Witnessed By: Keith Enders

SCALE: Not to Scale

Terms used to describe %  
Trace - < 5%  
Few - 5-10%  
Little - 15-25%  
Some - 20-35%  
Mostly - 50-100%

Edward K. Enders

SLD 72424

SLD 72423

SLD 72427

SLD 72426 OC  
(Moved boring to SE  
6' Boring under  
trailer)

Trailer

Block Building

SLD 72426 OC

SLD 72426 OC



trailer

24G FORM 1050a-4 24G 94



|                                                                                                                                  |  |                                                                                                                                                            |  |                                     |  |
|----------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------|--|
| <b>HTRW DRILLING LOG</b>                                                                                                         |  | DISTRICT <b>St. Louis</b>                                                                                                                                  |  | HOLE NUMBER <b>SLD 72428</b>        |  |
| 1. COMPANY NAME<br><b>Shaw E &amp; I</b>                                                                                         |  | 2. DRILLING SUBCONTRACTOR<br><b>MES, Inc.</b>                                                                                                              |  | SHEET <b>1</b> of <b>2</b>          |  |
| 3. PROJECT<br><b>FUSRAP/SLDS</b>                                                                                                 |  | 4. LOCATION<br><b>PSC Metals North Tract V.P.</b>                                                                                                          |  |                                     |  |
| 5. NAME OF DRILLER<br><b>Chris Anthony</b>                                                                                       |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><b>Diedrich D-120</b>                                                                                            |  |                                     |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><b>Diedrich D-120<br/>using 4 1/2" HSA and<br/>3" x 2" split spoon.</b> |  | 8. HOLE LOCATION<br><b>See location sketch</b>                                                                                                             |  |                                     |  |
| 9. SURFACE ELEVATION<br><b>N/A</b>                                                                                               |  | 10. DATE STARTED<br><b>2-4-03</b>                                                                                                                          |  | 11. DATE COMPLETED<br><b>2-4-03</b> |  |
| 12. OVERBURDEN THICKNESS<br><b>N/A</b>                                                                                           |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br><b>N/A</b>                                                                                                            |  |                                     |  |
| 13. DEPTH DRILLED INTO ROCK<br><b>N/A</b>                                                                                        |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><b>N/A</b>                                                                                 |  |                                     |  |
| 14. TOTAL DEPTH OF HOLE<br><b>6.0 FT BGS</b>                                                                                     |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><b>N/A</b>                                                                                                 |  |                                     |  |
| 18. GEOTECHNICAL SAMPLES                                                                                                         |  | DISTURBED                                                                                                                                                  |  | UNDISTURBED                         |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                |  | VOC                                                                                                                                                        |  | METALS                              |  |
| 21. TOTAL CORE RECOVERY                                                                                                          |  | OTHER (SPECIFY)                                                                                                                                            |  | OTHER (SPECIFY)                     |  |
| 22. DISPOSITION OF HOLE                                                                                                          |  | BACKFILLED                                                                                                                                                 |  | MONITORING WELL                     |  |
| 23. SIGNATURE OF INSPECTOR                                                                                                       |  | RAD                                                                                                                                                        |  | OTHER (SPECIFY)                     |  |
| LOCATION SKETCH/COMMENTS                                                                                                         |  | Witnessed by: <b>Robin Parks</b>                                                                                                                           |  | SCALE: Not to Scale                 |  |
|                                                                                                                                  |  | <p>Terms used to describe %</p> <p>Trace - &lt; 5 %</p> <p>Few - 5 - 10 %</p> <p>Little - 15 - 25 %</p> <p>Some - 20 - 35 %</p> <p>Mostly - 50 - 100 %</p> |  |                                     |  |
| PROJECT <b>FUSRAP/SLDS</b>                                                                                                       |  | HOLE NO. <b>SLD 72428</b>                                                                                                                                  |  |                                     |  |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                          |                                |                  |                   |                  | HOLE NUMBER<br>SLD 72428 |
|----------------------------------------|------------------------------------------------------------------------------------------|--------------------------------|------------------|-------------------|------------------|--------------------------|
| PROJECT<br>FUSRAP / SLD5               |                                                                                          | INSPECTOR<br>PHI / Joe Statler |                  | SHEET<br>2 of 2   |                  |                          |
| DEPTH<br>(ft)                          | DESCRIPTION OF FORMER LOG                                                                | RECOVERY<br>(ft)               | RECOVERY<br>(ft) | RECOVERY<br>(ft)  | RECOVERY<br>(ft) |                          |
| 1.0                                    | silty fine sand w/ some med. gravel, poorly sorted, to blk. dry, some cinders, some slag | 5380<br>0.0                    | RECOVERY         | 5.0-15'<br>10.5   | 19               |                          |
| 2.0                                    |                                                                                          | 5700<br>0.0                    | 2.0              | 10.5-16'<br>10.17 | 22               |                          |
| 3.0                                    |                                                                                          | 5000<br>0.0                    | 2.0              | 1.0-15'<br>10.20  | 15               |                          |
| 4.0                                    |                                                                                          | 5100<br>0.0                    |                  | 1.5-20'<br>10.25  | 22               |                          |
| 5.0                                    | mostly cinders, mostly slag                                                              | 5800<br>0.0                    | 1.8              | 2.0-25'<br>10.30  | 3                |                          |
| 6.0                                    |                                                                                          | 5800<br>0.0                    | 3.0              | 2.5-30'<br>10.35  | 4                |                          |
| 7.0                                    |                                                                                          | 5400<br>0.0                    |                  | 3.0-35'<br>10.40  | 4                |                          |
| 8.0                                    |                                                                                          | 5400<br>0.0                    |                  |                   | 5                |                          |
| 9.0                                    |                                                                                          | N/A                            |                  |                   | 3                |                          |
| 10.0                                   |                                                                                          | N/A                            |                  |                   | 6                |                          |
| 11.0                                   |                                                                                          | N/A                            |                  |                   | 7                |                          |
| 12.0                                   |                                                                                          | N/A                            |                  |                   | 11               |                          |
| 13.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 14.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 15.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 16.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 17.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 18.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 19.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 20.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 21.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 22.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 23.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 24.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 25.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 26.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 27.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 28.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 29.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 30.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 31.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 32.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 33.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 34.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 35.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 36.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 37.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 38.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 39.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 40.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 41.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 42.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 43.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 44.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 45.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 46.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 47.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 48.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 49.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 50.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 51.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 52.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 53.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 54.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 55.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 56.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 57.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 58.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 59.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 60.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 61.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 62.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 63.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 64.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 65.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 66.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 67.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 68.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 69.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 70.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 71.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 72.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 73.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 74.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 75.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 76.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 77.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 78.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 79.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 80.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 81.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 82.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 83.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 84.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 85.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 86.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 87.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 88.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 89.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 90.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 91.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 92.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 93.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 94.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 95.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 96.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 97.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 98.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 99.0                                   |                                                                                          | N/A                            |                  |                   |                  |                          |
| 100.0                                  |                                                                                          | N/A                            |                  |                   |                  |                          |

RADIOLOGICAL SURVEY FORM

Sample ID SLD 72428 C2  
Witness: Robin Parks

Date Sample was collected: 2-4-03

Date Sample was analyzed: 2-19-03

Instrument #1 Background 4690cpm

Instrument #2 Background 4598cpm

Count rate of Empty Pan: Beta 94cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 0-6                      | 5300                                                      | 610                               | 4826                                                  | 228                           | 181                                | 87       |
| 6-12                     | 5700                                                      | 1010                              | 5117                                                  | 519                           | 152                                | 58       |
| 12-18                    | 5000                                                      | 310                               | 4583                                                  | 75                            | 121                                | 27       |
| 18-24                    | 5100                                                      | 410                               | 4719                                                  | 121                           | 131                                | 37       |
| 24-30                    | 5800                                                      | 1110                              | 4978                                                  | 380                           | 162                                | 68       |
| 30-36                    | 5900                                                      | 1210                              | 5036                                                  | 438                           | 185                                | 91       |
| 36-42                    | 5400                                                      | 710                               | 5487                                                  | 889                           | 208                                | 114      |
| 42-48                    | N/A                                                       | N/A                               | N/A                                                   | N/A                           | N/A                                | N/A      |
| 48-54                    |                                                           |                                   |                                                       |                               |                                    |          |
| 54-60                    |                                                           |                                   |                                                       |                               |                                    |          |
| 60-66                    |                                                           |                                   |                                                       |                               |                                    |          |
| 66-72                    |                                                           |                                   |                                                       |                               |                                    |          |

SLD 72428

SLD 72446

SLD 72428  
Archive

N A

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                  |  |               |                                               | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER <u>SLD 72428R</u>  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------|-----------------------------------------------|----------------------------------------------------------------------------|--|--------------------------------|--|
| 1. COMPANY NAME<br><u>Shaw E &amp; I</u>                                                                                                                                                                                                                                                                                                                           |  |               | 2. DRILLING SUBCONTRACTOR<br><u>MES, Inc.</u> |                                                                            |  | SHEET <u>1</u> OF <u>2</u>     |  |
| 3. PROJECT<br><u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                   |  |               |                                               | 4. LOCATION<br><u>PSC Metals North Tract V.P.</u>                          |  |                                |  |
| 5. NAME OF DRILLER<br><u>Chris Anthony</u>                                                                                                                                                                                                                                                                                                                         |  |               |                                               | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>Diedrich D-120</u>            |  |                                |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Diedrich D-120</u><br><u>using 4" HSA and</u><br><u>3" x 2" split spoon.</u>                                                                                                                                                                                                                           |  |               |                                               | 8. HOLE LOCATION<br><u>See location sketch</u>                             |  |                                |  |
| 9. SURFACE ELEVATION<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                 |  |               |                                               | 10. DATE STARTED<br><u>2-12-03</u>                                         |  |                                |  |
| 11. DATE COMPLETED<br><u>2-12-03</u>                                                                                                                                                                                                                                                                                                                               |  |               |                                               | 12. OVERBURDEN THICKNESS<br><u>N/A</u>                                     |  |                                |  |
| 13. DEPTH DRILLED INTO ROCK<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                          |  |               |                                               | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                |  |
| 15. TOTAL DEPTH OF HOLE<br><u>6.0 FT. BGS</u>                                                                                                                                                                                                                                                                                                                      |  |               |                                               | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                |  |
| 17. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                           |  | 18. DISTURBED |                                               | 19. UNDISTURBED                                                            |  | 20. TOTAL NUMBER OF CORE BOXES |  |
| 21. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                  |  | 22. YES       |                                               | 23. METALS                                                                 |  | 24. OTHER (SPECIFY)            |  |
| 25. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                            |  | 26. YES       |                                               | 27. MONITORING WELL                                                        |  | 28. OTHER (SPECIFY)            |  |
| 29. SIGNATURE OF INSPECTOR<br><u>Ch. M. M. Flaherty</u>                                                                                                                                                                                                                                                                                                            |  | 30. YES       |                                               | 31. N/A                                                                    |  | 32. N/A                        |  |
| <div style="display: flex; justify-content: space-between;"> <div> <p>LOCATION SKETCH/COMMENTS</p> <p>Witnessed by: <u>Robin Parks</u></p> <p>SCALE: <u>Not to Scale</u></p> </div> <div> <p>Terms used to describe %</p> <p>Trace - &lt; 5 %</p> <p>Few - 5 - 10 %</p> <p>Little - 15 - 25 %</p> <p>Some - 20 - 35 %</p> <p>Mostly - 50 - 100 %</p> </div> </div> |  |               |                                               |                                                                            |  |                                |  |
| <p><u>SLD 72428R (moved boring 1.5' to 5' due to poor recovery in SLD 72428)</u></p> <p><u>propane tank</u></p> <p><u>SLD 72428</u></p> <p><u>6/dg</u></p> <p><u>O<sub>2</sub> Tank</u></p>                                                                                                                                                                        |  |               |                                               |                                                                            |  |                                |  |
| PROJECT <u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                         |  |               |                                               |                                                                            |  | HOLE NO. <u>SLD 72428B</u>     |  |

1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                         |                              |                  |                      |                      |                                                                                                                                                                                                         | WELL NUMBER<br>SLD 72428 B |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------|----------------------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| PROJECT<br>FUSRAP / SLDs               |                                                                                                                         | INSPECTOR<br>Phillip Staller |                  | SHEET<br>2 of 2      |                      | SUBSITES                                                                                                                                                                                                |                            |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS<br>(ft)                                                                                        | WATER<br>LEVEL<br>(ft)       | RECOVERY<br>(ft) | WELL<br>DIA.<br>(in) | WELL<br>CMTY<br>(in) | REMARKS<br>(ft)                                                                                                                                                                                         |                            |
| 1.0                                    | SEE<br>SLD<br>72428<br>for details                                                                                      | N/A                          | N/A              |                      | N/A                  |                                                                                                                                                                                                         |                            |
| 2.0                                    |                                                                                                                         | N/A                          |                  |                      | N/A                  |                                                                                                                                                                                                         |                            |
| 3.0                                    |                                                                                                                         | N/A                          |                  |                      | N/A                  |                                                                                                                                                                                                         |                            |
| 4.0                                    |                                                                                                                         | N/A                          |                  |                      | N/A                  |                                                                                                                                                                                                         |                            |
| 5.0                                    |                                                                                                                         | N/A                          |                  |                      | N/A                  |                                                                                                                                                                                                         |                            |
| 6.0                                    |                                                                                                                         | N/A                          |                  |                      | N/A                  |                                                                                                                                                                                                         |                            |
| 7.0                                    |                                                                                                                         | N/A                          |                  |                      | N/A                  |                                                                                                                                                                                                         |                            |
| 8.0                                    |                                                                                                                         | N/A                          |                  |                      | N/A                  |                                                                                                                                                                                                         |                            |
| 9.0                                    | Silty fine sand w/ pay<br>med. gravel, loose, poorly<br>graded, dk. brn, dry,<br>some clasts, something<br>trace bricks | 4600<br>0.0                  | 1.8<br>2.0       | 40-4.5<br>1555       | 4                    |                                                                                                                                                                                                         |                            |
| 10.0                                   |                                                                                                                         | 5000<br>0.0                  |                  | 45-5.0<br>1557       | 3                    |                                                                                                                                                                                                         |                            |
| 11.0                                   | Silty clay, med. stiff<br>mod. plastic, dk. brn,<br>dry, few med. gravel.                                               | 5300<br>0.0                  | more recovery    | 50-5.5<br>1600       | 3                    | SLD<br>72428<br>archival (1600)                                                                                                                                                                         |                            |
| 12.0                                   |                                                                                                                         | 4700<br>0.0                  |                  | 55-6.0<br>1600       | 5                    |                                                                                                                                                                                                         |                            |
| 13.0                                   | TD: 6.0' BGS<br>2-12-03<br>1557                                                                                         |                              |                  |                      |                      | Backgrounds<br>NAT: 4680<br>PID: 0.0<br>Boring back<br>filled w/<br>3.0 bags of<br>bentonite<br>chips.<br>* Sample<br>will be<br>counted using<br>gas propor<br>tional meter<br>(see attached<br>sheet) |                            |
| 14.0                                   |                                                                                                                         |                              |                  |                      |                      |                                                                                                                                                                                                         |                            |
| 15.0                                   |                                                                                                                         |                              |                  |                      |                      |                                                                                                                                                                                                         |                            |
| 16.0                                   |                                                                                                                         |                              |                  |                      |                      |                                                                                                                                                                                                         |                            |
| 17.0                                   |                                                                                                                         |                              |                  |                      |                      |                                                                                                                                                                                                         |                            |
| 18.0                                   |                                                                                                                         |                              |                  |                      |                      |                                                                                                                                                                                                         |                            |
| 19.0                                   |                                                                                                                         |                              |                  |                      |                      |                                                                                                                                                                                                         |                            |
| 20.0                                   |                                                                                                                         |                              |                  |                      |                      |                                                                                                                                                                                                         |                            |

**RADIOLOGICAL SURVEY FORM**

Sample ID SLD 72428B  
Robin Parks

Date Sample was collected: 2-12-03

Date Sample was analyzed: 2-19-03

Instrument #1 Background 4680cpm

Instrument #2 Background 4598cpm

Count rate of Empty Pan: Beta 94cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 0-6                      |                                                           |                                   |                                                       |                               |                                    |          |
| 6-12                     |                                                           |                                   |                                                       |                               |                                    |          |
| 12-18                    |                                                           |                                   |                                                       |                               |                                    |          |
| 18-24                    |                                                           |                                   |                                                       |                               |                                    |          |
| 24-30                    |                                                           |                                   |                                                       |                               |                                    |          |
| 30-36                    |                                                           |                                   |                                                       |                               |                                    |          |
| 36-42                    |                                                           |                                   |                                                       |                               |                                    |          |
| 42-48                    |                                                           |                                   |                                                       |                               |                                    |          |
| 48-54                    | 4600                                                      | -80                               | 4786                                                  | 188                           | 150                                | 56       |
| 54-60                    | 5000                                                      | 320                               | 5463                                                  | 865                           | 165                                | 71       |
| 60-66                    | 5300                                                      | 620                               | 4834                                                  | 236                           | 172                                | 78       |
| 66-72                    | 4700                                                      | 20                                | 4643                                                  | 45                            | 137                                | 43       |

SLD 72428  
Archive

| ITRW DRILLING LOG                                                                                                      |  | St. Louis                                                           |  | HOLE NUMBER<br>SLD72429    |  |
|------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------|--|----------------------------|--|
| 1. COMPANY NAME<br>Shaw E & I                                                                                          |  | 2. DRILLING CONTRACTOR<br>MES Inc.                                  |  | 3. SHEET<br>1 of 2         |  |
| 4. PROJECT<br>FUSRAP/SLDS                                                                                              |  | 5. LOCATION<br>PSC Metals N. Tract 3                                |  |                            |  |
| 6. NAME OF DRILLER<br>Chris Anthony                                                                                    |  | 7. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120            |  |                            |  |
| 8. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>Using 3 1/4" HSA and<br>3" x 2" Solid Spoon |  | 9. HOLE LOCATION<br>see location sketch                             |  |                            |  |
| 10. DATE STARTED<br>11-7-02                                                                                            |  | 11. DATE COMPLETED<br>11-2-02                                       |  |                            |  |
| 12. OVERBURDEN THICKNESS<br>N/A                                                                                        |  | 13. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A |  |                            |  |
| 14. TOTAL DEPTH OF HOLE<br>FT BGS                                                                                      |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                 |  |                            |  |
| 16. DEPOSITION OF HOLE<br>N/A                                                                                          |  | 17. SIGNATURE OF INSPECTOR                                          |  |                            |  |
| 18. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A                                                    |  | 19. TOTAL NUMBER OF CORE BOXES<br>0                                 |  |                            |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS<br>0                                                                                 |  | 21. TOTAL CORE RECOVERY<br>0 %                                      |  | 22. SIGNATURE OF INSPECTOR |  |
| 23. DEPOSITION OF HOLE<br>N/A                                                                                          |  | 24. SIGNATURE OF INSPECTOR                                          |  |                            |  |

LOCATION SKETCH/COMMENTS

North ↑

Boring moved due to Under ground O2 Line & Working Scrap Pile.

Rob Tarkenton

SCALE: Not to Scale

Terms used to describe %

Trace - < 5%

Few - 5-10%

Little - 15-25%

Some - 20-35%

Mostly - 50-100%

|             |                       |                      |
|-------------|-----------------------|----------------------|
| FUSRAP/SLDS | PSC Metals N. Tract 3 | HOLE NO.<br>SLD72429 |
|-------------|-----------------------|----------------------|

EM 1110-1-4000  
1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                        |                                   |                 |                                 |                    | HOLE NUMBER<br>SLD 72429                           |
|----------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------|-----------------|---------------------------------|--------------------|----------------------------------------------------|
| PROJECT<br>FUSRAP/SLOS                 |                                                                                        | INSPECTOR<br>Mark Cummings        |                 | SHEET<br>2 of 2                 |                    |                                                    |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS<br>(ft)                                                       | FIELD MEASUREMENTS<br>NO. OF P.D. | RECOVERY<br>(%) | ANALYTICAL<br>SAMPLE NO.        | BLOW COUNT<br>(ft) | REMARKS                                            |
| 0.0                                    | Gravel with silt, trace clay<br>Fine to coarse, poorly graded,<br>med dense, dry (gm)  | 6400                              | 2.0             | SLD<br>72429<br>11-7-02<br>1050 | 35                 | Now 6200 Bkg<br>PSD 0.0 Bkg<br>Labor MFC<br>1010   |
| 1.0                                    | Sand w/ few silt, med to<br>coarse, Bk, med dense to<br>loose, poorly graded, dry (ss) | 6900                              | 2.0             |                                 | 14                 |                                                    |
|                                        | Some cinders                                                                           | 7000                              |                 |                                 | 16                 |                                                    |
|                                        |                                                                                        | 6400                              |                 | SLD<br>72447<br>1055            | 10                 |                                                    |
| 2.0                                    | Becoming more silty clayey<br>(few to little), some fine<br>gravel,                    | 7100                              | 2.0             |                                 | 8                  |                                                    |
|                                        |                                                                                        | 6500                              |                 |                                 | 7                  |                                                    |
| 3.0                                    |                                                                                        | 6700                              |                 |                                 | 6                  |                                                    |
|                                        |                                                                                        | 6100                              |                 | SLD<br>72454<br>1100            | 5                  |                                                    |
| 4.0                                    | Silty clay, med stiff, w/<br>few trace cinders, brown, &<br>moist. (CL)                | 6100                              | 1.7             |                                 | 5                  |                                                    |
|                                        |                                                                                        | 6300                              | 2.0             |                                 | 5                  |                                                    |
| 5.0                                    | Fine sand, loose, poorly graded,<br>brown, brick frag. (SP)                            | 5900                              | compacted       |                                 | 4                  |                                                    |
|                                        |                                                                                        | 6900                              | No Recovery     | SLD<br>72461<br>1105            | 5                  |                                                    |
| 6.0                                    | TD 6' Bkg<br>1105<br>11-7-02                                                           |                                   |                 |                                 |                    | Bkg 6200 max<br>0.0 PSD                            |
| 7.0                                    |                                                                                        |                                   |                 |                                 |                    | Hole Backfilled<br>w/ Bentonite<br>chips<br>3 Bags |
| 8.0                                    |                                                                                        |                                   |                 |                                 |                    |                                                    |
| 9.0                                    |                                                                                        |                                   |                 |                                 |                    |                                                    |



| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |  | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER<br><u>SLD 72430</u>            |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|----------------------------------------------------------------------------|--|--------------------------------------------|--|
| 1. COMPANY NAME<br><u>Shaw E &amp; I</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |            |  | 2. DRILLING SUBCONTRACTOR<br><u>MES, Inc.</u>                              |  | SHEET <u>1</u> OF <u>2</u> SHEETS          |  |
| 3. PROJECT<br><u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |  | 4. LOCATION<br><u>PSC Metals North Tract V.P.</u>                          |  |                                            |  |
| 5. NAME OF DRILLER<br><u>Chris Anthony</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>Diedrich D-120</u>            |  |                                            |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Diedrich D-120</u><br><u>using P/MHSA and</u><br><u>3" x 2" split spoon.</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |            |  | 8. HOLE LOCATION<br><u>See location sketch</u>                             |  |                                            |  |
| 9. SURFACE ELEVATION<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |            |  | 10. DATE STARTED<br><u>1-29-03</u>                                         |  |                                            |  |
| 11. DATE COMPLETED<br><u>1-29-03</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  | 12. OVERBURDEN THICKNESS<br><u>N/A</u>                                     |  |                                            |  |
| 13. DEPTH DRILLED INTO ROCK<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                            |  |
| 15. TOTAL DEPTH OF HOLE<br><u>6.0 FT BGS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |            |  | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                            |  |
| 17. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | DISTURBED  |  | UNDISTURBED                                                                |  | 18. TOTAL NUMBER OF CORE BOXES<br><u>0</u> |  |
| 19. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | VOC        |  | METALS                                                                     |  | OTHER (SPECIFY)<br><u>RAD</u>              |  |
| 20. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | BACKFILLED |  | MONITORING WELL                                                            |  | OTHER (SPECIFY)<br><u>N/A</u>              |  |
| 21. SIGNATURE OF INSPECTOR<br><u>Susan L. Adams</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | Yes        |  | N/A                                                                        |  | 22. TOTAL CORE RECOVERY<br><u>0</u> %      |  |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p>LOCATION SKETCH/COMMENTS</p> <div style="border: 1px solid black; width: 100px; height: 100px; position: relative; margin: 10px;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"></div> <div style="position: absolute; top: 10px; left: 10px; transform: rotate(-90deg);">Bldg.</div> <div style="position: absolute; top: 50px; left: 50px;">propane tank</div> <div style="position: absolute; top: 70px; left: 70px;">Bldg.</div> <div style="position: absolute; top: 80px; left: 80px;">SLD 72430 (Moved 12' to S due to roadway tracks)</div> <div style="position: absolute; top: 80px; left: 10px;">SLD 73003</div> </div> </div> <div style="width: 35%;"> <p>Witnessed by: <u>Susan Adams</u></p> <p>SCALE: Not to Scale</p> <p>Terms used to describe %</p> <p>Trace - <math>\leq 5\%</math></p> <p>Few - <math>5-10\%</math></p> <p>Little - <math>15-25\%</math></p> <p>Some - <math>20-35\%</math></p> <p>Mostly - <math>50-100\%</math></p> </div> </div> |  |            |  |                                                                            |  |                                            |  |
| PROJECT <u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |            |  |                                                                            |  | HOLE NO. <u>SLD 72430</u>                  |  |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                   |                           |              |              |         | SLD 72430     |       |
|----------------------------------------|-----------------------------------------------------------------------------------|---------------------------|--------------|--------------|---------|---------------|-------|
| PROJECT FUSRAP / SLDs                  |                                                                                   | INSPECTOR Phillip Statter |              | SHEET 2 of 2 |         | DATE 11/29/03 |       |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                          | APPARENT LOSS (ft)        | RECOVERY (%) | LOSS (ft)    | REMARKS | SLD           | DATE  |
| 0.0                                    | silty fine sand w/ some                                                           | 4600                      | 20/2.0       | 0.0-0.5      | 163     | SLD           | 72430 |
| 1.0                                    | med gravel, very dense, poorly graded, dk. brn + blk, dry, few cinders, few slag. | 4300                      |              | 0.5-1.0      | 136     | 1045          |       |
| 2.0                                    | few brick frags, few limestone cobbles                                            | 4200                      |              | 1.0-1.5      | 72      |               |       |
| 3.0                                    |                                                                                   | 4700                      |              | 1.5-2.0      | 91      | SLD           | 72430 |
| 4.0                                    | cinders and slag in casing                                                        | 5000                      | 20/2.0       | 2.0-2.5      | 16      | 72430         | 1103  |
| 5.0                                    |                                                                                   | 4800                      |              | 2.5-3.0      | 73      |               |       |
| 6.0                                    |                                                                                   | 5300                      |              | 3.0-3.5      | 14      |               |       |
| 7.0                                    |                                                                                   | 4700                      |              | 3.5-4.0      | 9       | SLD           | 72430 |
| 8.0                                    | few silty clay                                                                    | 4600                      | 1.6/2.0      | 4.0-4.5      | 8       | 72430         | 1117  |
| 9.0                                    | few cinders and slag, few brick frags                                             | 4400                      |              | 4.5-5.0      | 6       |               |       |
| 10.0                                   |                                                                                   | 4100                      |              | 5.0-5.5      | 5       | SLD           | 72430 |
| 11.0                                   |                                                                                   | N/A                       | no recovery  | 5.5-6.0      | 4       | 72430         | 1125  |
| 12.0                                   | TD: 6.0' BGS                                                                      |                           |              |              |         |               |       |
| 13.0                                   | 1115                                                                              |                           |              |              |         |               |       |
| 14.0                                   | 1-29-03                                                                           |                           |              |              |         |               |       |
| 15.0                                   |                                                                                   |                           |              |              |         |               |       |
| 16.0                                   |                                                                                   |                           |              |              |         |               |       |
| 17.0                                   |                                                                                   |                           |              |              |         |               |       |
| 18.0                                   |                                                                                   |                           |              |              |         |               |       |
| 19.0                                   |                                                                                   |                           |              |              |         |               |       |
| 20.0                                   |                                                                                   |                           |              |              |         |               |       |
| 21.0                                   |                                                                                   |                           |              |              |         |               |       |
| 22.0                                   |                                                                                   |                           |              |              |         |               |       |
| 23.0                                   |                                                                                   |                           |              |              |         |               |       |
| 24.0                                   |                                                                                   |                           |              |              |         |               |       |
| 25.0                                   |                                                                                   |                           |              |              |         |               |       |
| 26.0                                   |                                                                                   |                           |              |              |         |               |       |
| 27.0                                   |                                                                                   |                           |              |              |         |               |       |
| 28.0                                   |                                                                                   |                           |              |              |         |               |       |
| 29.0                                   |                                                                                   |                           |              |              |         |               |       |
| 30.0                                   |                                                                                   |                           |              |              |         |               |       |
| 31.0                                   |                                                                                   |                           |              |              |         |               |       |
| 32.0                                   |                                                                                   |                           |              |              |         |               |       |
| 33.0                                   |                                                                                   |                           |              |              |         |               |       |
| 34.0                                   |                                                                                   |                           |              |              |         |               |       |
| 35.0                                   |                                                                                   |                           |              |              |         |               |       |
| 36.0                                   |                                                                                   |                           |              |              |         |               |       |
| 37.0                                   |                                                                                   |                           |              |              |         |               |       |
| 38.0                                   |                                                                                   |                           |              |              |         |               |       |
| 39.0                                   |                                                                                   |                           |              |              |         |               |       |
| 40.0                                   |                                                                                   |                           |              |              |         |               |       |
| 41.0                                   |                                                                                   |                           |              |              |         |               |       |
| 42.0                                   |                                                                                   |                           |              |              |         |               |       |
| 43.0                                   |                                                                                   |                           |              |              |         |               |       |
| 44.0                                   |                                                                                   |                           |              |              |         |               |       |
| 45.0                                   |                                                                                   |                           |              |              |         |               |       |
| 46.0                                   |                                                                                   |                           |              |              |         |               |       |
| 47.0                                   |                                                                                   |                           |              |              |         |               |       |
| 48.0                                   |                                                                                   |                           |              |              |         |               |       |
| 49.0                                   |                                                                                   |                           |              |              |         |               |       |
| 50.0                                   |                                                                                   |                           |              |              |         |               |       |
| 51.0                                   |                                                                                   |                           |              |              |         |               |       |
| 52.0                                   |                                                                                   |                           |              |              |         |               |       |
| 53.0                                   |                                                                                   |                           |              |              |         |               |       |
| 54.0                                   |                                                                                   |                           |              |              |         |               |       |
| 55.0                                   |                                                                                   |                           |              |              |         |               |       |
| 56.0                                   |                                                                                   |                           |              |              |         |               |       |
| 57.0                                   |                                                                                   |                           |              |              |         |               |       |
| 58.0                                   |                                                                                   |                           |              |              |         |               |       |
| 59.0                                   |                                                                                   |                           |              |              |         |               |       |
| 60.0                                   |                                                                                   |                           |              |              |         |               |       |
| 61.0                                   |                                                                                   |                           |              |              |         |               |       |
| 62.0                                   |                                                                                   |                           |              |              |         |               |       |
| 63.0                                   |                                                                                   |                           |              |              |         |               |       |
| 64.0                                   |                                                                                   |                           |              |              |         |               |       |
| 65.0                                   |                                                                                   |                           |              |              |         |               |       |
| 66.0                                   |                                                                                   |                           |              |              |         |               |       |
| 67.0                                   |                                                                                   |                           |              |              |         |               |       |
| 68.0                                   |                                                                                   |                           |              |              |         |               |       |
| 69.0                                   |                                                                                   |                           |              |              |         |               |       |
| 70.0                                   |                                                                                   |                           |              |              |         |               |       |
| 71.0                                   |                                                                                   |                           |              |              |         |               |       |
| 72.0                                   |                                                                                   |                           |              |              |         |               |       |
| 73.0                                   |                                                                                   |                           |              |              |         |               |       |
| 74.0                                   |                                                                                   |                           |              |              |         |               |       |
| 75.0                                   |                                                                                   |                           |              |              |         |               |       |
| 76.0                                   |                                                                                   |                           |              |              |         |               |       |
| 77.0                                   |                                                                                   |                           |              |              |         |               |       |
| 78.0                                   |                                                                                   |                           |              |              |         |               |       |
| 79.0                                   |                                                                                   |                           |              |              |         |               |       |
| 80.0                                   |                                                                                   |                           |              |              |         |               |       |
| 81.0                                   |                                                                                   |                           |              |              |         |               |       |
| 82.0                                   |                                                                                   |                           |              |              |         |               |       |
| 83.0                                   |                                                                                   |                           |              |              |         |               |       |
| 84.0                                   |                                                                                   |                           |              |              |         |               |       |
| 85.0                                   |                                                                                   |                           |              |              |         |               |       |
| 86.0                                   |                                                                                   |                           |              |              |         |               |       |
| 87.0                                   |                                                                                   |                           |              |              |         |               |       |
| 88.0                                   |                                                                                   |                           |              |              |         |               |       |
| 89.0                                   |                                                                                   |                           |              |              |         |               |       |
| 90.0                                   |                                                                                   |                           |              |              |         |               |       |
| 91.0                                   |                                                                                   |                           |              |              |         |               |       |
| 92.0                                   |                                                                                   |                           |              |              |         |               |       |
| 93.0                                   |                                                                                   |                           |              |              |         |               |       |
| 94.0                                   |                                                                                   |                           |              |              |         |               |       |
| 95.0                                   |                                                                                   |                           |              |              |         |               |       |
| 96.0                                   |                                                                                   |                           |              |              |         |               |       |
| 97.0                                   |                                                                                   |                           |              |              |         |               |       |
| 98.0                                   |                                                                                   |                           |              |              |         |               |       |
| 99.0                                   |                                                                                   |                           |              |              |         |               |       |
| 100.0                                  |                                                                                   |                           |              |              |         |               |       |

**IT Corporation**  
**FUSRAP SLDS 775575**

# RADIOLOGICAL SURVEY FORM

Sample ID SLD 72430 c2  
Sudan Adams

Date Sample was collected: 1-29-03

Date Sample was analyzed: 2-19-03

Instrument #1 Background 4481 cpm

Instrument #2 Background 4602 cpm

Count rate of Empty Pan: Beta 83 cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Countrate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|-----------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                        | Net Beta |
| 0-6                      | 4600                                                      | 119                               | 4284                                                  | -318                          | 94                                | 11       |
| 6-12                     | 4300                                                      | -181                              | 4386                                                  | -216                          | 100                               | 17       |
| 12-18                    | 4200                                                      | -281                              | 4519                                                  | -83                           | 136                               | 53       |
| 18-24                    | 4700                                                      | 219                               | 4428                                                  | -174                          | 129                               | 46       |
| 24-30                    | 5000                                                      | 519                               | 4889                                                  | 287                           | 159                               | 76       |
| 30-36                    | 4800                                                      | 319                               | 4789                                                  | 187                           | 115                               | 32       |
| 36-42                    | 5300                                                      | 819                               | 4705                                                  | 103                           | 142                               | 59       |
| 42-48                    | 4700                                                      | 219                               | 4645                                                  | 43                            | 143                               | 60       |
| 48-54                    | 4600                                                      | 119                               | 4718                                                  | 116                           | 137                               | 54       |
| 54-60                    | 4900                                                      | 419                               | 4741                                                  | 139                           | 154                               | 71       |
| 60-66                    | 4900                                                      | 419                               | 4606                                                  | 4                             | 163                               | 80       |
| 66-72                    | N/A                                                       | N/A                               | N/A                                                   | N/A                           | N/A                               | N/A      |

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                          |  |                                     |  | ST. LOUIS                                                           |  | HOLE NUMBER<br>SLD 72463 QC |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------|--|---------------------------------------------------------------------|--|-----------------------------|--|
| 1. COMPANY NAME<br>Shaw F & I                                                                                                                                                                                                                                                                                              |  | 2. DRILLING CONTRACTOR<br>MES, Inc. |  | 3. SHEET<br>1                                                       |  | 4. OF SHEETS<br>2           |  |
| 5. PROJECT<br>FUSRAP / SLDs                                                                                                                                                                                                                                                                                                |  |                                     |  | 6. LOCATION<br>PSC Metals North Tract V.P.                          |  |                             |  |
| 7. NAME OF DRILLER<br>Chris Anthony                                                                                                                                                                                                                                                                                        |  |                                     |  | 8. MANUFACTURER DESIGNATION OF DRILL<br>Diedrich D-120              |  |                             |  |
| 9. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using 424/HSA and<br>3" x 2' split spoon                                                                                                                                                                                                        |  |                                     |  | 10. HOLE LOCATION<br>See location sketch                            |  |                             |  |
| 11. DATE STARTED<br>11-20-02                                                                                                                                                                                                                                                                                               |  |                                     |  | 12. DATE COMPLETED<br>11-20-02                                      |  |                             |  |
| 13. OVERBURDEN THICKNESS<br>N/A                                                                                                                                                                                                                                                                                            |  |                                     |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A |  |                             |  |
| 15. DEPTH DRILLED INTO ROCK<br>N/A                                                                                                                                                                                                                                                                                         |  |                                     |  | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                 |  |                             |  |
| 17. TOTAL DEPTH OF HOLE<br>6.0 FT BGS                                                                                                                                                                                                                                                                                      |  |                                     |  | 18. TOTAL NUMBER OF CORE BOXES<br>0                                 |  |                             |  |
| 19. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                   |  | 20. DISTURBED                       |  | 21. UNDISTURBED                                                     |  | 22. TOTAL CORE RECOVERY     |  |
| 0                                                                                                                                                                                                                                                                                                                          |  | 0                                   |  | 0                                                                   |  | 0                           |  |
| 23. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                          |  | 24. METALS                          |  | 25. OTHER SPECIFY                                                   |  | 26. OTHER SPECIFY           |  |
| 0                                                                                                                                                                                                                                                                                                                          |  | 0                                   |  | RAD                                                                 |  | 0                           |  |
| 27. DEPTH OF SAMPLE                                                                                                                                                                                                                                                                                                        |  | 28. MONITORING VEL.                 |  | 29. OTHER SPECIFY                                                   |  | 30. SIGNATURE OF INSPECTOR  |  |
| 0                                                                                                                                                                                                                                                                                                                          |  | N/A                                 |  | N/A                                                                 |  | [Signature]                 |  |
| LOCATION SKETCH/COMMENTS<br>North                                                                                                                                                                                                                                                                                          |  |                                     |  | Witnessed By: Susan Adams SCALE: Not to Scale                       |  |                             |  |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> </div> <div style="width: 35%; border: 1px solid black; padding: 5px;"> <p>Terms used to describe %</p> <p>Trace - &lt; 5%</p> <p>Few - 5-10%</p> <p>Little - 15-25%</p> <p>Some - 20-35%</p> <p>Mostly - 50-100%</p> </div> </div> |  |                                     |  |                                                                     |  |                             |  |
| PROJECT<br>FUSRAP / SLDs                                                                                                                                                                                                                                                                                                   |  |                                     |  | HOLE NO.<br>SLD 72463 QC                                            |  |                             |  |





# HTRW DRILLING LOG (CONTINUATION SHEET)

PROJECT FUSRAP/SLDS

INSPECTOR Phillip Statler

SLD 72464

SHEET 2 of 2

| DEPTH (ft) | DESCRIPTION OF MATERIALS                                                                                                                                                                                    | FIELD SAMPLE NO. (ft)                     | ANALYST'S SAMPLE NO. (ft) | SLDS NO.                               | REMARKS                                                                                          |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------|
| COVER      | Cobble Cover                                                                                                                                                                                                | 5500<br>0.0                               |                           | SLD 72464<br>Cover<br>11-14-02         | N/A (1400)                                                                                       |
| 1          |                                                                                                                                                                                                             | N/A                                       |                           |                                        | N/A                                                                                              |
| 2          | Silty clay, med. stiff, med. plast, lt. brn to dk brn, moist, 1 piece of glass, 2 limestone frags, trace wood frags, trace brick frags, trace concrete frags, trace green frags, trace cinders, trace sand. | 5500<br>0.0<br>5600<br>0.0<br>4900<br>0.0 | 1.7 / 2.0                 | SLD 72464<br>1410<br>SLD 72428<br>1415 | Petroleum Odor                                                                                   |
| 3          |                                                                                                                                                                                                             | 5500<br>15.5<br>5600<br>0.0               | no recovery               |                                        | 6                                                                                                |
| 4          | few wood frags, trace concrete frags                                                                                                                                                                        | 5600<br>121.0<br>4900<br>0.0              | 1.6 / 2.0                 | SLD 72511<br>1425                      | 3                                                                                                |
| 5          | few wood frags, trace cinders and slag.                                                                                                                                                                     | N/A<br>N/A<br>5400<br>0.0<br>5700<br>0.0  | no recovery               |                                        | 6                                                                                                |
| 6          |                                                                                                                                                                                                             | 4100<br>0.0<br>5600<br>0.0                | 1.8 / 2.0                 |                                        | 4                                                                                                |
| 7          | Trace coarse gravel                                                                                                                                                                                         |                                           |                           | SLD 72514<br>1435                      | 4                                                                                                |
|            |                                                                                                                                                                                                             |                                           | no recovery               |                                        | 5                                                                                                |
|            | TP: 6.0 PS, 7.0 BGS 11-14-02 1415                                                                                                                                                                           |                                           |                           |                                        | Background: NAT: 4700 PFD: 0.0 Back filled boring w/ 3.5 bags of bentonite chips. Capped w/ soil |

FUSRAP/SLDS

SLD 72464

#



1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                                              |                 |              | HOLE NUMBER    |         |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------|----------------|---------|
| PROJECT                                |                                                                                                                                              | OPERATOR        |              | SHEET          |         |
| FUSRAP/SLOS                            |                                                                                                                                              | Phillip Statler |              | 2 of 2         |         |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                                                                                     | WIRE LOG (ft)   | RECOVERY (%) | SLP (ft)       | REMARKS |
| 0.0                                    | silty clay, mod. silt, (A) mod. plat. (dk. brn.) moist, trace wood frags, few med. to coarse gravel, trace slag, trace concrete frags, trace | 4400 0.0        | RECOVERY     | SLP 72465 1185 | 6       |
| 1.0                                    |                                                                                                                                              | 4400 0.0        | 2.0          |                | 5       |
| 2.0                                    |                                                                                                                                              | 5000 0.0        | 2.0          | SLP 72465 1185 | 6       |
| 3.0                                    |                                                                                                                                              | 4700 0.0        |              |                | 4       |
| 4.0                                    |                                                                                                                                              | 4300 0.0        |              |                | 9       |
| 5.0                                    | few cinders and slag, trace brick frags.                                                                                                     | 4100 0.0        | 1.8          | SLP 72465 1185 | 22      |
| 6.0                                    |                                                                                                                                              | 4500 0.0        | 2.0          |                | 15      |
| 7.0                                    | piece of wire                                                                                                                                | 4700 0.0        | no recovery  |                | 16      |
| 8.0                                    |                                                                                                                                              |                 |              |                | 6       |
| 9.0                                    |                                                                                                                                              |                 |              |                | 8       |
| 10.0                                   |                                                                                                                                              |                 |              |                | 12      |
| 11.0                                   |                                                                                                                                              |                 |              |                | 16      |
| 12.0                                   |                                                                                                                                              |                 |              |                |         |
| 13.0                                   |                                                                                                                                              |                 |              |                |         |
| 14.0                                   |                                                                                                                                              |                 |              |                |         |
| 15.0                                   |                                                                                                                                              |                 |              |                |         |
| 16.0                                   |                                                                                                                                              |                 |              |                |         |
| 17.0                                   |                                                                                                                                              |                 |              |                |         |
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| 88.0                                   |                                                                                                                                              |                 |              |                |         |
| 89.0                                   |                                                                                                                                              |                 |              |                |         |
| 90.0                                   |                                                                                                                                              |                 |              |                |         |
| 91.0                                   |                                                                                                                                              |                 |              |                |         |
| 92.0                                   |                                                                                                                                              |                 |              |                |         |
| 93.0                                   |                                                                                                                                              |                 |              |                |         |
| 94.0                                   |                                                                                                                                              |                 |              |                |         |
| 95.0                                   |                                                                                                                                              |                 |              |                |         |
| 96.0                                   |                                                                                                                                              |                 |              |                |         |
| 97.0                                   |                                                                                                                                              |                 |              |                |         |
| 98.0                                   |                                                                                                                                              |                 |              |                |         |
| 99.0                                   |                                                                                                                                              |                 |              |                |         |
| 100.0                                  |                                                                                                                                              |                 |              |                |         |



| Borehole Drilling Log  |                                                                                                                                      | CONTINUATION SHEET         |              | SLO 72465B   |                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------|--------------|------------------------------------------------------------------------------------------------------------|
| PROJECT: EUS 440 S.O.S |                                                                                                                                      | INSPECTOR: Phillip Statler |              | SHEET 2 OF 2 |                                                                                                            |
| DEPTH (ft)             | DESCRIPTION OF MATERIALS                                                                                                             | WATER LEVEL (ft)           | RECOVERY (%) | BLOW COUNT   | REMARKS                                                                                                    |
| 10                     | SEE<br>SLO 72465<br>for<br>information                                                                                               |                            |              |              |                                                                                                            |
| 20                     |                                                                                                                                      |                            |              |              |                                                                                                            |
| 30                     |                                                                                                                                      |                            |              |              |                                                                                                            |
| 40                     |                                                                                                                                      |                            |              |              |                                                                                                            |
| 45                     |                                                                                                                                      |                            |              |              |                                                                                                            |
| 47.00                  | silty clay w/ some fine sand, loose, poorly graded, dk. brn, dry, little cinders and little slag, few brick frags, few broken glass. | 47.00                      | 1.9          | 4            | archive sample from 5.4-5.9' BGS (1830)                                                                    |
| 49.00                  |                                                                                                                                      | 49.00                      | 2.0          | 3            |                                                                                                            |
| 48.00                  |                                                                                                                                      | 48.00                      |              | 9            |                                                                                                            |
| 48.00                  | trace weathered wood.                                                                                                                | 48.00                      |              | 7            |                                                                                                            |
| 50                     | TD: 6.0' BGS<br>10-31-02<br>1320                                                                                                     |                            |              |              | Background:<br>NAT: 4,200<br>PID: 0.0<br>Backfilled boring w/ 3.0 bags of bentonite chips. Capped w/ soil. |



| HTRW DRILLING LOG |                                                                                                      | CONTINUATION SHEET        |              | SLD 72466      |           |
|-------------------|------------------------------------------------------------------------------------------------------|---------------------------|--------------|----------------|-----------|
| FUSRAP/SLDS       |                                                                                                      | INSPECTOR Phillip Statler |              | SHEET 2 OF 2   |           |
| DEPTH (ft)        | DESCRIPTION OF MATERIALS                                                                             | WATER CONTENT (%)         | RECOVERY (%) | SLD NO.        | SLD COUNT |
| 0.0               | silty clay, med. stiff to stiff, med. plastic, H. brny dry.                                          | 6300 0.0                  | RECOVERY     | SLD 72466 1320 | 5         |
| 1.0               | trace brick frags.                                                                                   | 5900 0.0                  | 2.0          |                | 16        |
| 2.0               | few cinders, few slag, trace                                                                         | 6200 0.0                  | 2.0          |                | 10        |
| 3.0               | trace wood frags (very small), few cinders, few slag, trace bricks, 1 piece of tar paper, trace rust | 6300 0.0                  | 1.8          |                | 6         |
| 4.0               |                                                                                                      | 6600 0.0                  | 2.0          | SLD 72466 1365 | 7         |
| 5.0               | silty fine sand, loose, poorly graded, H. brny, moist.                                               | 5900 0.0                  | no recovery  |                | 8         |
| 6.0               | trace wood frags                                                                                     | 6300 0.0                  | 2.0          |                | 4         |
| 7.0               |                                                                                                      | 5900 0.0                  | 2.0          |                | 4         |
| 8.0               |                                                                                                      | 5600 0.0                  |              |                | 5         |
| 9.0               |                                                                                                      | 5800 0.0                  |              | SLD 72466 1410 | 6         |
| 10.0              | TD: 6.0' BGS<br>11-6-02<br>1400                                                                      |                           |              |                |           |
| 11.0              |                                                                                                      |                           |              |                |           |
| 12.0              |                                                                                                      |                           |              |                |           |
| 13.0              |                                                                                                      |                           |              |                |           |
| 14.0              |                                                                                                      |                           |              |                |           |
| 15.0              |                                                                                                      |                           |              |                |           |
| 16.0              |                                                                                                      |                           |              |                |           |
| 17.0              |                                                                                                      |                           |              |                |           |
| 18.0              |                                                                                                      |                           |              |                |           |
| 19.0              |                                                                                                      |                           |              |                |           |
| 20.0              |                                                                                                      |                           |              |                |           |

CL

SM

archive sample from 3.0-3.5' BGS

archive sample from 5.5-6.0' BGS

Background  
NAI: 5500  
PID: 0.0  
Backfilled  
boring w/  
3.0 bags of  
bentonite  
chips. Capped  
w/soil.

# -TRW DRILLING LOG

S. Louis

SLD 7246701

|                                                                                                                        |  |                                                                     |  |                         |  |
|------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------|--|-------------------------|--|
| 1. COMPANY NAME<br>SNOW E & I                                                                                          |  | 2. DRILLING CONTRACTOR<br>MES, Inc.                                 |  | 3. SHEET<br>1 of 2      |  |
| 4. PROJECT<br>FUSRAO / SLOS                                                                                            |  | 5. LOCATION<br>PSC Metals North Tract V.P.                          |  |                         |  |
| 6. NAME OF WELLER<br>Chris Anthony                                                                                     |  | 7. ABSTRACT/RECORDATION OF WELL<br>Diedrich D-120                   |  |                         |  |
| 8. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using 4 1/4" HSA and<br>3" x 2" split spoon |  | 9. HOLE LOCATION<br>See location sketch                             |  |                         |  |
| 10. DATE STARTED<br>11-14-02                                                                                           |  | 11. DATE COMPLETED<br>11-14-02                                      |  |                         |  |
| 12. OVERSAMPLING THICKNESS<br>N/A                                                                                      |  | 13. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A |  |                         |  |
| 14. DEPTH DRILLED INTO SOIL<br>N/A                                                                                     |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                 |  |                         |  |
| 16. TOTAL DEPTH OF HOLE<br>6.0 FT BGS                                                                                  |  | 17. TOTAL NUMBER OF CORE BOXES<br>0                                 |  |                         |  |
| 18. TESTS/ANALYSES<br>0                                                                                                |  | 19. TESTS/ANALYSES<br>0                                             |  | 20. TESTS/ANALYSES<br>0 |  |
| 21. TESTS/ANALYSES<br>0                                                                                                |  | 22. TESTS/ANALYSES<br>0                                             |  | 23. TESTS/ANALYSES<br>0 |  |
| 24. TESTS/ANALYSES<br>0                                                                                                |  | 25. TESTS/ANALYSES<br>0                                             |  | 26. TESTS/ANALYSES<br>0 |  |

LOCATION SKETCH/COMMENTS

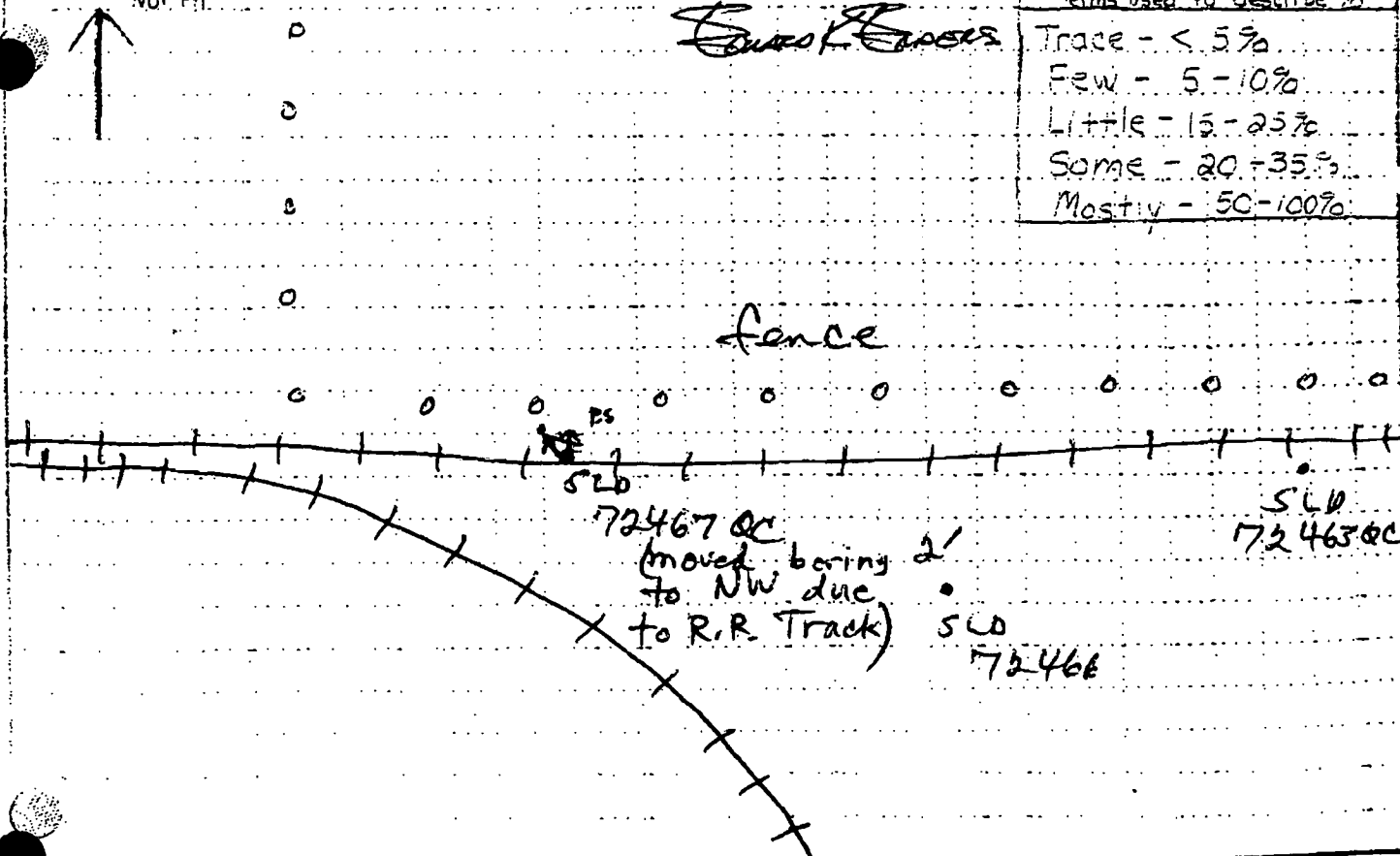
Witnessed By: Keith Enders

SCALE: Not to Scale

North

Survey Lines

Terms used to describe %  
Trace - < 5%  
Few - 5-10%  
Little - 12-25%  
Some - 20-35%  
Mostly - 50-100%



FUSRAO / SLOS

SLD 72467 QC

Silty fine sand w/ some gravel to coarse gravel

10052 to Mex. dense

dry. (gravel) 11.2m

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5th day of July 1945

*[Handwritten signature]*

Trade Under and odd.

[illegible]

Day H. Dr. Gunders,

5 kg gr-coal obsn.

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

Back stuck in tip

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10  
for cylinders, for

slag; few brick frags

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11

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Trace with

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|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|

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SECRET

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[illegible]





1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                                | HOLE NUMBER<br>SLD 72468       |                        |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------------------|
| PROJECT<br>EUSRAP/SLOS                 |                                                                                                                                | INSPECTOR<br>Phillip Statter   |                        |
| DEPTH<br>FEET                          | DESCRIPTION OF MATERIALS                                                                                                       | NEUTRON LOG<br>COUNTS PER FOOT | BLOW COUNT<br>PER FOOT |
| 1.0                                    | Silty clay w/ tan med. gravel, med. silt to stiff, med. plat., dk. brn, some cinders and slag, trace glass, trace brick frags. | 5400<br>0.0                    | 15                     |
| 2.0                                    | clay H. brn, cinders, slag and brick frags. absent                                                                             | 4900<br>0.0                    | 8                      |
| 3.0                                    |                                                                                                                                | 4200<br>0.0                    | 7                      |
| 4.0                                    |                                                                                                                                | 4800<br>0.0                    | 8                      |
| 5.0                                    |                                                                                                                                | 4700<br>0.0                    | 7                      |
| 6.0                                    |                                                                                                                                | 4900<br>0.0                    | 8                      |
| 7.0                                    |                                                                                                                                | 5200<br>0.0                    | 8                      |
| 8.0                                    |                                                                                                                                | 5300<br>0.0                    | 9                      |
| 9.0                                    |                                                                                                                                | 4900<br>0.0                    | 8                      |
| 10.0                                   |                                                                                                                                | 4600<br>0.0                    | 7                      |
| 11.0                                   |                                                                                                                                | 5100<br>0.0                    | 7                      |
| 12.0                                   |                                                                                                                                | 5100<br>0.0                    | 8                      |
| 13.0                                   |                                                                                                                                |                                |                        |
| 14.0                                   |                                                                                                                                |                                |                        |
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| 90.0                                   |                                                                                                                                |                                |                        |
| 91.0                                   |                                                                                                                                |                                |                        |
| 92.0                                   |                                                                                                                                |                                |                        |
| 93.0                                   |                                                                                                                                |                                |                        |
| 94.0                                   |                                                                                                                                |                                |                        |
| 95.0                                   |                                                                                                                                |                                |                        |
| 96.0                                   |                                                                                                                                |                                |                        |
| 97.0                                   |                                                                                                                                |                                |                        |
| 98.0                                   |                                                                                                                                |                                |                        |
| 99.0                                   |                                                                                                                                |                                |                        |
| 100.0                                  |                                                                                                                                |                                |                        |

| HTRW DRILLING LOG                                                                                                                                       |  |  |  | DISTRICT<br>St. Louis                                                                                                                            |  | HOLE NUMBER<br>SLD 72469 |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------|--|
| 1. COMPANY NAME<br>Shaw E + I                                                                                                                           |  |  |  | 2. DRILLING SUBCONTRACTOR<br>MES, Inc.                                                                                                           |  | SHEET<br>1 of 2          |  |
| 3. PROJECT<br>FUS RAP / SLDS                                                                                                                            |  |  |  | 4. LOCATION<br>PSC Metals North Tract<br><del>City of Venice, IL</del> V.P.S.                                                                    |  |                          |  |
| 5. NAME OF DRILLER<br>Chris Anthony                                                                                                                     |  |  |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120                                                                                         |  |                          |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using 2 1/4" HSA and<br>3" x 2' split spoon                                  |  |  |  | 8. HOLE LOCATION<br>N/A                                                                                                                          |  |                          |  |
| 9. SURFACE ELEVATION<br>N/A                                                                                                                             |  |  |  | 10. DATE STARTED<br>10-8-02                                                                                                                      |  |                          |  |
| 11. DATE COMPLETED<br>10-8-02                                                                                                                           |  |  |  | 12. OVERBURDEN THICKNESS<br>N/A                                                                                                                  |  |                          |  |
| 13. DEPTH DRILLED INTO ROCK<br>N/A                                                                                                                      |  |  |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br>N/A                                                                                                         |  |                          |  |
| 14. TOTAL DEPTH OF HOLE<br>10.0' BGS                                                                                                                    |  |  |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A                                                                              |  |                          |  |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                                                                                                     |  |  |  | 18. GEOTECHNICAL SAMPLES                                                                                                                         |  |                          |  |
| <div style="display: flex; justify-content: space-between;"> <span>20. SAMPLES FOR CHEMICAL ANALYSIS</span> <span>21. TOTAL CORE RECOVERY</span> </div> |  |  |  | <div style="display: flex; justify-content: space-between;"> <span>22. DISPOSITION OF HOLE</span> <span>23. SIGNATURE OF INSPECTOR</span> </div> |  |                          |  |
| <div style="display: flex; justify-content: space-between;"> <span>24. LOCATION SKETCH/COMMENTS</span> <span>25. SCALE: Not to scale</span> </div>      |  |  |  | <div style="display: flex; justify-content: space-between;"> <span>26. PROJECT</span> <span>27. HOLE NO.</span> </div>                           |  |                          |  |

LOCATION SKETCH/COMMENTS: A hand-drawn sketch on a grid background. It shows a curved line representing 'RR Tracks' running diagonally from the top right towards the bottom left. Another curved line, parallel to the first, is also labeled 'RR Tracks'. A horizontal line at the bottom is labeled 'Concrete wall'. A point on the grid is marked with a cross and labeled 'SLD 72469'. A line segment is labeled '114' from orange mark on wall (dune)'. Other handwritten notes include 'Susan L. Adams' and 'SCALE: Not to scale'.

PROJECT: FUS RAP / SLDS

HOLE NO.: SLD 72469

1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                                    |                           |              |                           |                   | HOLE NO. 72469                  |                      |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------|---------------------------|-------------------|---------------------------------|----------------------|
| PROJECT FUSRAP/SLDS                    |                                                                                                                                    | INSPECTOR Phillip Statler |              | SHEET 2 OF 2              |                   | SHEETS                          |                      |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS (ft)                                                                                                      | WALL THICKNESS (in)       | RECOVERY (%) | ANALYTICAL LABORATORY NO. | BLANK CORRECT (%) | REMARKS                         |                      |
| SM 1.0                                 | Silty fine sand w/ few med. gravel, med. dense, poorly graded, dk. brn, dry, trace limst. frags. some cinders and slag.            | 6900 0.0                  | 1.7/         | SLD 72469 10-8-02 1490    | 18                |                                 |                      |
|                                        |                                                                                                                                    | 7500 0.0                  | 2.0          |                           | 22                |                                 |                      |
|                                        |                                                                                                                                    | 7000 0.0                  |              | SLD 72469 1495            | 17                |                                 |                      |
|                                        |                                                                                                                                    | 7200 0.0                  | Recovery     |                           | 12                |                                 |                      |
| CL 3.0                                 | Silty clay, med. plast. H. brn, dry, med. dense, few brick frags, few med. gravel.                                                 | 7100 0.0                  | 2.0/         | SLD 72469 1495            | 11                | archive sample from 2.3-2.8 BGS | SLD 72834 (10-12-02) |
|                                        |                                                                                                                                    | 7400 0.0                  | 2.0          | SLD 72835 (10-12-02)      | 9                 |                                 |                      |
|                                        |                                                                                                                                    | 6800 0.0                  |              |                           | 9                 |                                 |                      |
|                                        |                                                                                                                                    | 7000 0.0                  |              |                           | 11                |                                 |                      |
| SM 5.0                                 | Silty fine sand, med. dense, poorly graded, gry, dry. wood frags, weathered, flaky. trace well-rounded gravel. mottled grey / brn. | 7200 0.0                  | 1.8/         |                           | 5                 | archive sample from 4.8-5.3 BGS | SLD 72835 (10-12-02) |
|                                        |                                                                                                                                    | 6800 0.0                  | 2.0          |                           | 5                 |                                 |                      |
|                                        |                                                                                                                                    | 6800 0.0                  |              | SLD 72835 (10-12-02)      | 6                 |                                 |                      |
|                                        |                                                                                                                                    | 7000 0.0                  | no recovery  |                           | 8                 |                                 |                      |
|                                        |                                                                                                                                    | 7000 0.0                  | 1.9/         | SLD 72835 (10-12-02)      | 3                 |                                 |                      |
|                                        |                                                                                                                                    | 7200 0.0                  | 2.0          | SLD 72835 (10-12-02)      | 3                 |                                 |                      |
|                                        |                                                                                                                                    | 6800 0.0                  |              | SLD 72835 (10-12-02)      | 6                 |                                 |                      |
|                                        |                                                                                                                                    | 7100 0.0                  |              | SLD 72835 (10-12-02)      | 6                 |                                 |                      |
|                                        |                                                                                                                                    | 6500 0.0                  | 2.0/         |                           | 6                 |                                 |                      |
|                                        |                                                                                                                                    | 6800 0.0                  | 2.0          |                           | 3                 |                                 |                      |
|                                        |                                                                                                                                    | 6400 0.0                  |              |                           | 4                 |                                 |                      |
|                                        |                                                                                                                                    | 6700 0.0                  |              | SLD 72469 1695            | 4                 |                                 |                      |

|                                                                                                                      |  |                                                                     |  |                               |  |
|----------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------|--|-------------------------------|--|
| <b>STRW DRILLING LOG</b>                                                                                             |  | St. Louis                                                           |  | SLD 72470                     |  |
| COMPANY NAME<br>Shaw E & I                                                                                           |  | 2. DRILLING SUBCONTRACTOR<br>MES, Inc.                              |  | SHEET 1 of 2                  |  |
| 1. PROJECT<br>FUSRAP / SLDS                                                                                          |  | 4. LOCATION<br>PSC Metals North Tract V.P.                          |  |                               |  |
| 3. NAME OF DRILLER<br>Chris Anthony                                                                                  |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120            |  |                               |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using 3/4" HSA and<br>3" x 2" split spoon |  | 8. HOLE LOCATION<br>See location sketch                             |  |                               |  |
|                                                                                                                      |  | 9. SURFACE ELEVATION<br>N/A                                         |  |                               |  |
| PED 11-6-02 NAI LUD 172040<br>to 100/100 Cal Date 4-1-03 BK9 = 5500                                                  |  | 10. DATE STARTED<br>11-6-02                                         |  | 11. DATE COMPLETED<br>11-6-02 |  |
| 12. OVERBURDEN THICKNESS<br>N/A                                                                                      |  | 15. DEPTH GROUNDWATER ENCOUNTERED                                   |  |                               |  |
| 13. DEPTH DRILLED INTO ROCK<br>N/A                                                                                   |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A |  |                               |  |
| 14. TOTAL DEPTH OF HOLE<br>6.0 FT BGS                                                                                |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                 |  |                               |  |
| 18. GEOTECHNICAL SAMPLES                                                                                             |  | DISTURBED                                                           |  | UNDISTURBED                   |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                    |  | TOC                                                                 |  | METALS                        |  |
| 22. DEPOSITION OF HOLE                                                                                               |  | SAMPLING                                                            |  | MONITORING WELL               |  |
|                                                                                                                      |  | Yes                                                                 |  | N/A                           |  |
|                                                                                                                      |  |                                                                     |  | RAD                           |  |
|                                                                                                                      |  |                                                                     |  | OTHER (SPECIFY)               |  |
|                                                                                                                      |  |                                                                     |  | OTHER (SPECIFY)               |  |
|                                                                                                                      |  |                                                                     |  | OTHER (SPECIFY)               |  |
|                                                                                                                      |  |                                                                     |  | 21. TOTAL CORE RECOVERED      |  |
|                                                                                                                      |  |                                                                     |  | 23. SIGNATURE OF INSPECTOR    |  |

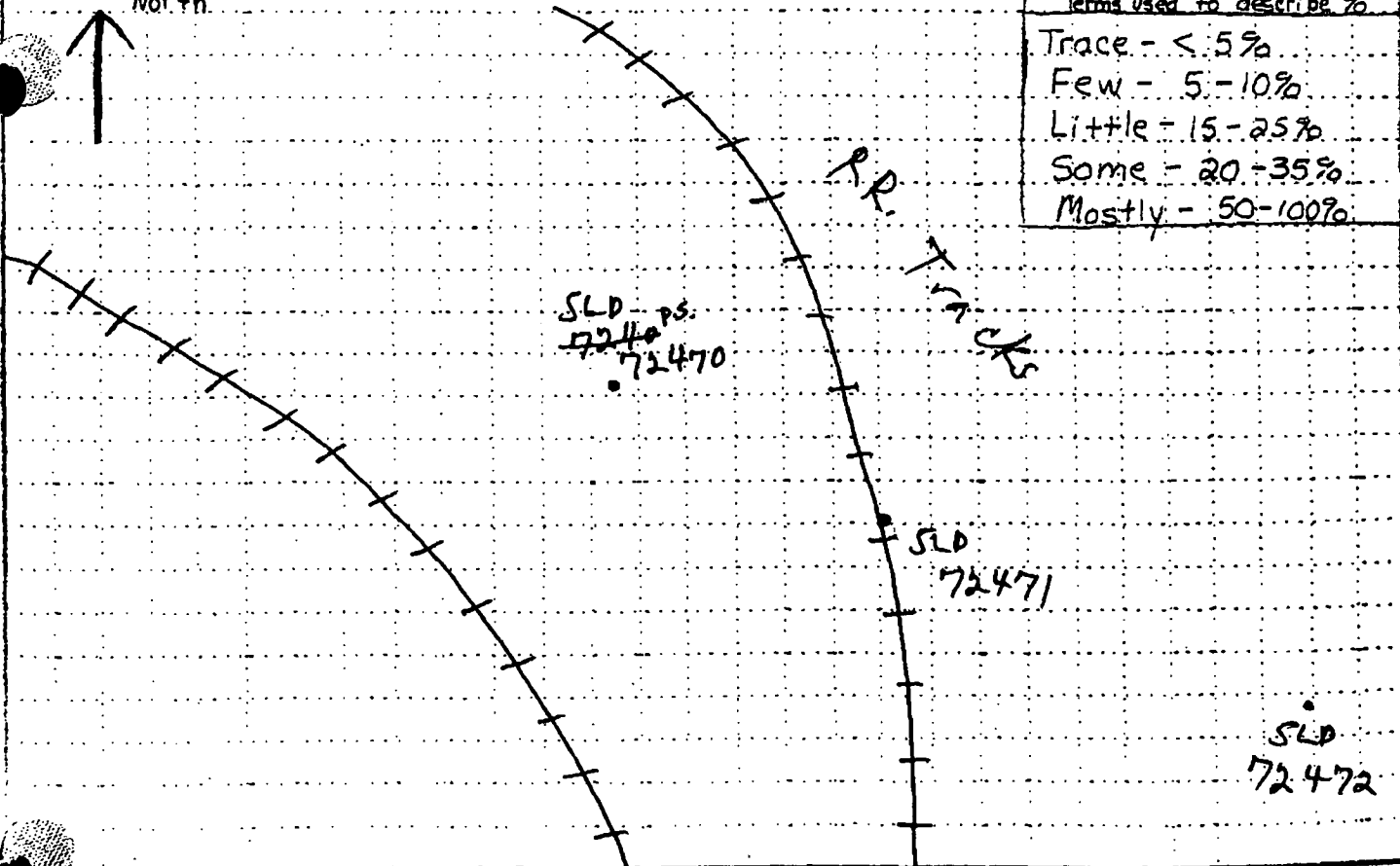
LOCATION SKETCH/COMMENTS  
North

Witnessed By: Robin Parks

SCALE: Not to Scale

Terms used to describe %

Trace - < 5%  
Few - 5-10%  
Little - 15-25%  
Some - 20-35%  
Mostly - 50-100%



FUSRAP / SLDS

SLD 72470

| HTRW DRILLING LOG |                                                                                                                    | CONTINUATION SHEET |                 | HOLE NUMBER            |                                  |
|-------------------|--------------------------------------------------------------------------------------------------------------------|--------------------|-----------------|------------------------|----------------------------------|
| PROJECT           |                                                                                                                    | INSPECTOR          |                 | SLO 72470              |                                  |
| FUSRAP/SLOS       |                                                                                                                    | Phillip Statler    |                 | SHEET 2 OF 2           |                                  |
| DEPTH<br>(feet)   | DESCRIPTION OF MATERIALS                                                                                           | TEST NO.<br>(in)   | RECOVERY<br>(%) | SLURRY<br>COUNT<br>(%) | REMARKS                          |
| 1.0               | Silty clay w/ few med. to coarse gravel, stiff to very stiff, med. plastic, dk. brn, dry, few cinders and few slag | 5700<br>0.0        | 2.0             | 13                     |                                  |
|                   |                                                                                                                    | 5800<br>0.0        | 2.0             | 28                     |                                  |
|                   |                                                                                                                    | 6400<br>0.0        |                 | 20                     |                                  |
| 2.0               | absence of cinders, slag and gravel.                                                                               | 5500<br>0.0        |                 | 12                     |                                  |
|                   | clay turning lt. brn.                                                                                              | 5800<br>0.0        |                 | 7                      |                                  |
| 3.0               |                                                                                                                    | 5400<br>0.0        | 1.5             | 10                     |                                  |
|                   |                                                                                                                    | 6200<br>0.0        | 2.0             | 11                     | archive sample from 3.0-3.5 BGS  |
| 4.0               |                                                                                                                    | N/A                | no recovery     | 14                     |                                  |
|                   | clay turning lt. gry.                                                                                              | 6200<br>0.0        |                 | 3                      |                                  |
|                   | + trace weathered wood frags                                                                                       | 6000<br>0.0        | 2.0             | 4                      | archive sample from 4.5-5.0' BGS |
| 5.0               |                                                                                                                    | 5800<br>0.0        | 2.0             | 4                      |                                  |
|                   | + trace weathered wood frags                                                                                       | 5600<br>0.0        |                 | 5                      |                                  |
| 6.0               |                                                                                                                    |                    |                 |                        |                                  |
| 7.0               | TD: 6.0' BGS                                                                                                       |                    |                 |                        | Background:                      |
|                   | 11-6-02                                                                                                            |                    |                 |                        | NAT: 5500                        |
|                   | 1030                                                                                                               |                    |                 |                        | PIID: 0.0                        |
| 8.0               |                                                                                                                    |                    |                 |                        | Back-filled                      |
|                   |                                                                                                                    |                    |                 |                        | boring w/                        |
| 9.0               |                                                                                                                    |                    |                 |                        | 3.0 bags of                      |
|                   |                                                                                                                    |                    |                 |                        | benstonite                       |
|                   |                                                                                                                    |                    |                 |                        | chips. Capped                    |
|                   |                                                                                                                    |                    |                 |                        | w/soil.                          |



| HTRW DRILLING LOG |                                                                                                                                    | CONTINUATION SHEET     |                  | HOLE NUMBER            |         |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------|------------------------|---------|
| PROJECT           |                                                                                                                                    | OPERATOR               |                  | DATE                   |         |
| FUSRAP/SLOS       |                                                                                                                                    | Phillip Statler        |                  | SLD 72471              |         |
| DEPTH<br>(ft)     | DESCRIPTION OF MATERIALS                                                                                                           | LOG CORRECTION<br>(ft) | RECOVERY<br>(ft) | SLW CORRECTION<br>(ft) | REMARKS |
| 1.0               | silty clay w/ some med. to coarse gravel, med. stiff to stiff med. plastic, dk. brn., dry, few cinders, few slag, few brick frags. | 5400<br>0.0            | 2.0 / 2.0        | SLD 72471<br>1100      | 14      |
| 2.0               | fine sand, well-sorted, trace broken glass, trace coal.                                                                            | 5700<br>0.0            |                  |                        | 10      |
| 3.0               |                                                                                                                                    | 6100<br>0.0            |                  |                        | 8       |
| 4.0               |                                                                                                                                    | 6000<br>0.0            |                  | SLD 72471<br>1105      | 10      |
| 5.0               |                                                                                                                                    | 5300<br>0.0            | 1.8 / 2.0        |                        | 9       |
| 6.0               |                                                                                                                                    | 5700<br>0.0            |                  |                        | 4       |
| 7.0               | cinders and slag increasing, few broken glass                                                                                      | 5700<br>0.0            |                  |                        | 4       |
| 8.0               |                                                                                                                                    | 6000<br>0.0            |                  | SLD 72471<br>1115      | 5       |
| 9.0               | few pieces of rust.                                                                                                                | 6700<br>0.0            | no recovery      |                        | 3       |
| 10.0              |                                                                                                                                    | 5700<br>0.0            | 1.5 / 2.0        |                        | 3       |
| 11.0              | few weathered wood frags                                                                                                           | 5800<br>0.0            |                  | SLD 72471<br>1125      | 4       |
| 12.0              |                                                                                                                                    | N/A                    | no recovery      |                        | 4       |
| 13.0              | TD: 6.0' BGS<br>11-6-02<br>1105                                                                                                    |                        |                  |                        |         |
| 14.0              |                                                                                                                                    |                        |                  |                        |         |
| 15.0              |                                                                                                                                    |                        |                  |                        |         |
| 16.0              |                                                                                                                                    |                        |                  |                        |         |
| 17.0              |                                                                                                                                    |                        |                  |                        |         |
| 18.0              |                                                                                                                                    |                        |                  |                        |         |
| 19.0              |                                                                                                                                    |                        |                  |                        |         |
| 20.0              |                                                                                                                                    |                        |                  |                        |         |

CL  
SM  
PS

Background:  
NAT: 5500  
PIP: 0.0  
Backfilled  
boring w/  
3.0 bags of  
bentonite  
chips. Capped  
boring w/  
soil.





| TRW DRILLING LOG |                                                                                                                             | CONTINUATION SHEET |             | WELL NUMBER             |         |
|------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------|-------------|-------------------------|---------|
| WELL             |                                                                                                                             | OPERATOR           |             | PAGE                    |         |
| EUS RAP/SLOS     |                                                                                                                             | Phillip Statler    |             | 2 of 2                  |         |
| DEPTH<br>FEET    | DESCRIPTION OF MATERIAL                                                                                                     | TIME<br>MIN        | RECOVERY    | SLURRY<br>NO            | REMARKS |
| 10.0             | silty clay, med. stiff to stiff, med. plastic; dk. brn. dry, trace med. gravel, trace brick frags, 1 piece limestone cobble | 4300<br>0.0        | 2.0         | SLD<br>72472<br>1036    | 9       |
| 11.0             |                                                                                                                             | 4500<br>0.0        | 2.0         |                         | 12      |
| 12.0             |                                                                                                                             | 4800<br>0.0        | 2.0         | SLD<br>72496<br>1036    | 13      |
| 13.0             |                                                                                                                             | 4500<br>0.0        |             |                         | 13      |
| 14.0             | few cinders and slag                                                                                                        | 4500<br>0.0        |             |                         | 17      |
| 15.0             | few same cinders, some slag, trace bricks, some fine sand                                                                   | 5100<br>0.0        | 2.0         |                         | 6       |
| 16.0             |                                                                                                                             | 5200<br>0.0        | 2.0         | SLD<br>72472<br>archive | 4       |
| 17.0             | few broken glass frags.                                                                                                     | 4700<br>0.0        |             |                         | 6       |
| 18.0             | piece of porcelain                                                                                                          | 4500<br>0.0        |             |                         | 5       |
| 19.0             | few cinders, few slag, trace weathered wood.                                                                                | 4500<br>0.0        | 1.4         | SLD<br>72472<br>archive | 4       |
| 20.0             |                                                                                                                             | 4500<br>0.0        | 2.0         |                         | 3       |
| 21.0             |                                                                                                                             | N/A                | no recovery |                         | 5       |
| 22.0             |                                                                                                                             | N/A                |             |                         |         |
| 23.0             |                                                                                                                             |                    |             |                         |         |
| 24.0             |                                                                                                                             |                    |             |                         |         |
| 25.0             |                                                                                                                             |                    |             |                         |         |
| 26.0             |                                                                                                                             |                    |             |                         |         |
| 27.0             |                                                                                                                             |                    |             |                         |         |
| 28.0             |                                                                                                                             |                    |             |                         |         |
| 29.0             |                                                                                                                             |                    |             |                         |         |
| 30.0             |                                                                                                                             |                    |             |                         |         |
| 31.0             |                                                                                                                             |                    |             |                         |         |
| 32.0             |                                                                                                                             |                    |             |                         |         |
| 33.0             |                                                                                                                             |                    |             |                         |         |
| 34.0             |                                                                                                                             |                    |             |                         |         |
| 35.0             |                                                                                                                             |                    |             |                         |         |
| 36.0             |                                                                                                                             |                    |             |                         |         |
| 37.0             |                                                                                                                             |                    |             |                         |         |
| 38.0             |                                                                                                                             |                    |             |                         |         |
| 39.0             |                                                                                                                             |                    |             |                         |         |
| 40.0             |                                                                                                                             |                    |             |                         |         |
| 41.0             |                                                                                                                             |                    |             |                         |         |
| 42.0             |                                                                                                                             |                    |             |                         |         |
| 43.0             |                                                                                                                             |                    |             |                         |         |
| 44.0             |                                                                                                                             |                    |             |                         |         |
| 45.0             |                                                                                                                             |                    |             |                         |         |
| 46.0             |                                                                                                                             |                    |             |                         |         |
| 47.0             |                                                                                                                             |                    |             |                         |         |
| 48.0             |                                                                                                                             |                    |             |                         |         |
| 49.0             |                                                                                                                             |                    |             |                         |         |
| 50.0             |                                                                                                                             |                    |             |                         |         |
| 51.0             |                                                                                                                             |                    |             |                         |         |
| 52.0             |                                                                                                                             |                    |             |                         |         |
| 53.0             |                                                                                                                             |                    |             |                         |         |
| 54.0             |                                                                                                                             |                    |             |                         |         |
| 55.0             |                                                                                                                             |                    |             |                         |         |
| 56.0             |                                                                                                                             |                    |             |                         |         |
| 57.0             |                                                                                                                             |                    |             |                         |         |
| 58.0             |                                                                                                                             |                    |             |                         |         |
| 59.0             |                                                                                                                             |                    |             |                         |         |
| 60.0             |                                                                                                                             |                    |             |                         |         |
| 61.0             |                                                                                                                             |                    |             |                         |         |
| 62.0             |                                                                                                                             |                    |             |                         |         |
| 63.0             |                                                                                                                             |                    |             |                         |         |
| 64.0             |                                                                                                                             |                    |             |                         |         |
| 65.0             |                                                                                                                             |                    |             |                         |         |
| 66.0             |                                                                                                                             |                    |             |                         |         |
| 67.0             |                                                                                                                             |                    |             |                         |         |
| 68.0             |                                                                                                                             |                    |             |                         |         |
| 69.0             |                                                                                                                             |                    |             |                         |         |
| 70.0             |                                                                                                                             |                    |             |                         |         |
| 71.0             |                                                                                                                             |                    |             |                         |         |
| 72.0             |                                                                                                                             |                    |             |                         |         |
| 73.0             |                                                                                                                             |                    |             |                         |         |
| 74.0             |                                                                                                                             |                    |             |                         |         |
| 75.0             |                                                                                                                             |                    |             |                         |         |
| 76.0             |                                                                                                                             |                    |             |                         |         |
| 77.0             |                                                                                                                             |                    |             |                         |         |
| 78.0             |                                                                                                                             |                    |             |                         |         |
| 79.0             |                                                                                                                             |                    |             |                         |         |
| 80.0             |                                                                                                                             |                    |             |                         |         |
| 81.0             |                                                                                                                             |                    |             |                         |         |
| 82.0             |                                                                                                                             |                    |             |                         |         |
| 83.0             |                                                                                                                             |                    |             |                         |         |
| 84.0             |                                                                                                                             |                    |             |                         |         |
| 85.0             |                                                                                                                             |                    |             |                         |         |
| 86.0             |                                                                                                                             |                    |             |                         |         |
| 87.0             |                                                                                                                             |                    |             |                         |         |
| 88.0             |                                                                                                                             |                    |             |                         |         |
| 89.0             |                                                                                                                             |                    |             |                         |         |
| 90.0             |                                                                                                                             |                    |             |                         |         |
| 91.0             |                                                                                                                             |                    |             |                         |         |
| 92.0             |                                                                                                                             |                    |             |                         |         |
| 93.0             |                                                                                                                             |                    |             |                         |         |
| 94.0             |                                                                                                                             |                    |             |                         |         |
| 95.0             |                                                                                                                             |                    |             |                         |         |
| 96.0             |                                                                                                                             |                    |             |                         |         |
| 97.0             |                                                                                                                             |                    |             |                         |         |
| 98.0             |                                                                                                                             |                    |             |                         |         |
| 99.0             |                                                                                                                             |                    |             |                         |         |
| 100.0            |                                                                                                                             |                    |             |                         |         |

TD: 6.0' BGS  
10-31-02  
1036

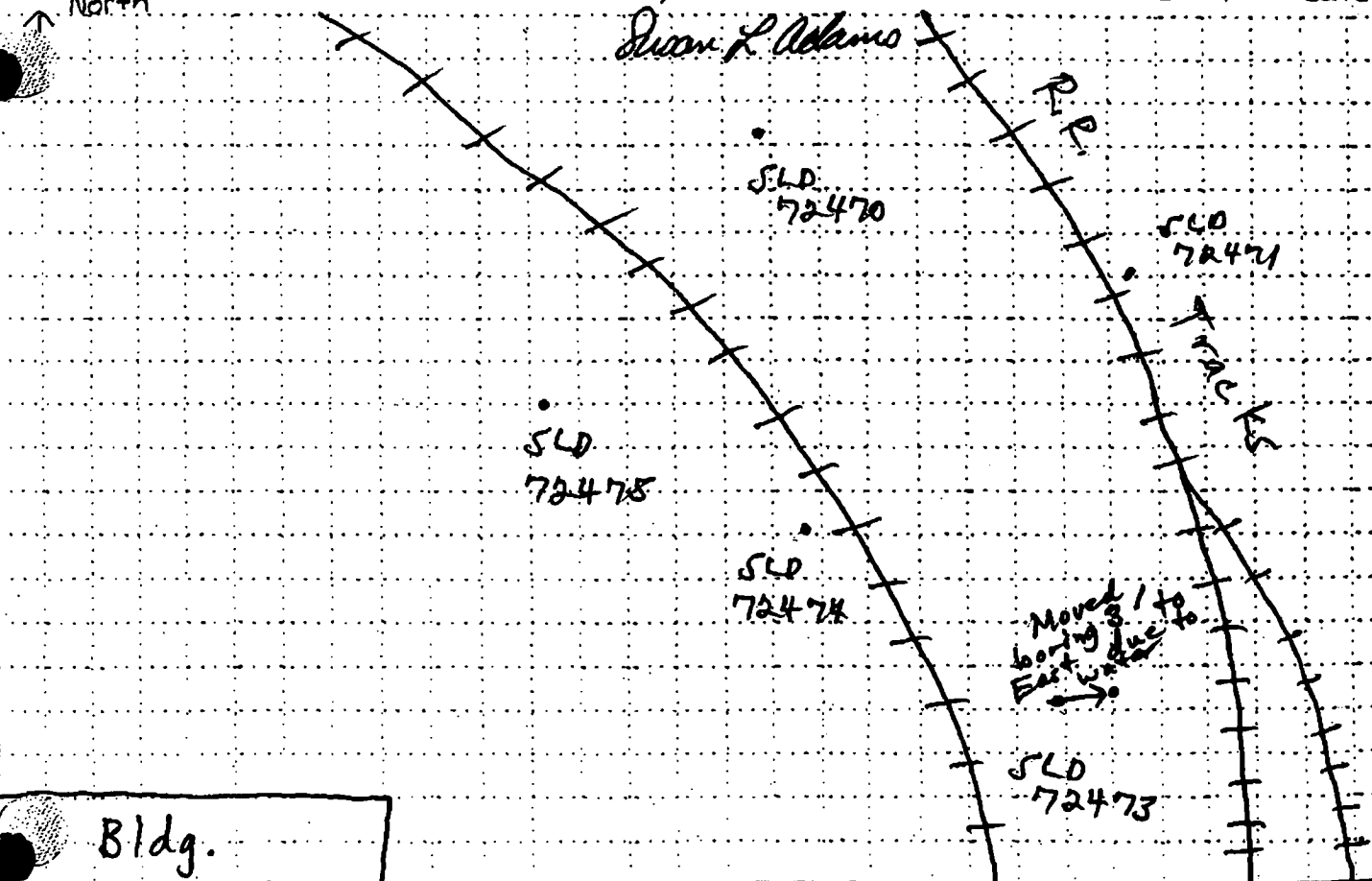
Background:  
NaI: 4200  
PID: 0.0  
Back-filled  
boring w/  
3.0 bags of  
bentonite  
chips capped  
w/soil.

103600 SLOS

SLD 72472

| HTRW DRILLING LOG                                                                                                                          |                                                | DISTRICT                                                                           |                                                                   | HOLE NUMBER                                         |                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| COMPANY NAME<br><b>Shaw E + I</b>                                                                                                          |                                                | St. Louis                                                                          |                                                                   | <b>SLD 72473</b>                                    |                                                     |
| 2. DRILLING SUBCONTRACTOR<br><b>MES, Inc.</b>                                                                                              |                                                |                                                                                    |                                                                   | SHEET <b>1</b> OF <b>2</b>                          |                                                     |
| 3. PROJECT<br><b>FUS RAP / SLDs</b>                                                                                                        |                                                | 4. LOCATION <b>BC Metals North Tract V.P.</b><br><b>City of Venice, IL VP P.S.</b> |                                                                   |                                                     |                                                     |
| 5. NAME OF DRILLER<br><b>Chris Anthony</b>                                                                                                 |                                                | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><b>Diedrich D-120</b>                    |                                                                   |                                                     |                                                     |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><b>Diedrich D-120</b><br><b>using 4 1/4 HSA and</b><br><b>3" x 2' split spoon</b> |                                                | 8. HOLE LOCATION<br><b>N/A</b>                                                     |                                                                   |                                                     |                                                     |
|                                                                                                                                            |                                                | 9. SURFACE ELEVATION<br><b>N/A</b>                                                 |                                                                   |                                                     |                                                     |
| PID <b>16-30-02</b> <b>NAI</b> <b>LUD 172040</b><br><b>to 109100</b> <b>Cal Date 4-1-03</b> <b>BgK = 5,400</b>                             |                                                | 10. DATE STARTED<br><b>10-30-02</b>                                                |                                                                   | 11. DATE COMPLETED<br><b>10-30-02</b>               |                                                     |
| 12. OVERBURDEN THICKNESS<br><b>N/A</b>                                                                                                     |                                                | 15. DEPTH GROUNDWATER ENCOUNTERED<br><b>N/A</b>                                    |                                                                   |                                                     |                                                     |
| 13. DEPTH DRILLED INTO ROCK<br><b>N/A</b>                                                                                                  |                                                | 16. DEPTH TO WATER AND ELAPSED TIME AFTER COILING COMPLETED<br><b>N/A</b>          |                                                                   |                                                     |                                                     |
| 14. TOTAL DEPTH OF HOLE<br><b>6.0 BGS</b>                                                                                                  |                                                | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><b>N/A</b>                         |                                                                   |                                                     |                                                     |
| 18. GEOTECHNICAL SAMPLES                                                                                                                   | <input checked="" type="checkbox"/> DISTURBED  | <input checked="" type="checkbox"/> UNDISTURBED                                    | 19. TOTAL NUMBER OF CORE BOXES<br><b>0</b>                        |                                                     |                                                     |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                          | <input checked="" type="checkbox"/> TOC        | <input checked="" type="checkbox"/> METALS                                         | <input checked="" type="checkbox"/> OTHER (SPECIFY)<br><b>RAD</b> | <input checked="" type="checkbox"/> OTHER (SPECIFY) | <input checked="" type="checkbox"/> OTHER (SPECIFY) |
| 22. DISPOSITION OF HOLE                                                                                                                    | <input checked="" type="checkbox"/> BACKFILLED | <input checked="" type="checkbox"/> MONITORING WELL                                | <input checked="" type="checkbox"/> OTHER (SPECIFY)               | 23. SIGNATURE OF INSPECTOR<br><b>Chilly McHob</b>   |                                                     |

LOCATION SKETCH/COMMENTS Witnessed by: **Susan Adams** SCALE: Not to scale



|                                  |  |                              |  |
|----------------------------------|--|------------------------------|--|
| PROJECT<br><b>FUS RAP / SLDs</b> |  | HOLE NO.<br><b>SLD 72473</b> |  |
|----------------------------------|--|------------------------------|--|

1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                                           |                            |               |                               |               | HOLE NUMBER<br>SLD 72473  |                                                                                            |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------|-------------------------------|---------------|---------------------------|--------------------------------------------------------------------------------------------|
| PROJECT<br>FUSRAP/SLDS                 |                                                                                                                                           | INSPECTOR<br>Philip Gatter |               | SHEET<br>2 OF 2               |               | SHEET'S                   |                                                                                            |
| DEPTH<br>FEET                          | DESCRIPTION OF MATERIALS                                                                                                                  | TESTED<br>NO. OF<br>CORES  | RECOVERY<br>% | TESTED<br>NO. OF<br>CORES     | RECOVERY<br>% | TESTED<br>NO. OF<br>CORES | RECOVERY<br>%                                                                              |
| 1.0                                    | Silty clay w/ clay mat to coarse gravel, stiff to very stiff med. plastic, dk. brn., dry, trace cinders and trace slag, trace brick frag. | 5500<br>0.0                | 1.9/<br>2.0   | SLD 72473<br>10-30-02<br>1450 | 10            |                           |                                                                                            |
|                                        |                                                                                                                                           | 5500<br>0.0                |               |                               | 12            |                           |                                                                                            |
|                                        |                                                                                                                                           | 5500<br>0.0                |               | SLD 72473<br>1440             | 15            |                           |                                                                                            |
| 2.0                                    | Few pieces of coal, few fine sand.                                                                                                        | 4900<br>0.0                | no recovery   |                               | 22            |                           |                                                                                            |
|                                        | Few well rounded sand and well rounded gravel (med)                                                                                       | 5600<br>0.0                |               |                               | 5             |                           |                                                                                            |
| 3.0                                    |                                                                                                                                           | 5300<br>0.0                | 2.0/<br>2.0   |                               | 17            |                           |                                                                                            |
|                                        |                                                                                                                                           | 5400<br>0.0                |               |                               | 6             |                           |                                                                                            |
| 4.0                                    | piece of glass, clay, bedding th. brn., cinders, slag, and brick absent.                                                                  | 5500<br>0.0                |               | SLD 72473<br>1450             | 6             |                           | archive sample from 3.5-4.0' BGS                                                           |
|                                        |                                                                                                                                           | 5900<br>0.0                |               |                               | 4             |                           |                                                                                            |
| 5.0                                    | Silty fine sand, loose, poorly graded, lt. gry, dry.                                                                                      | 4900<br>0.0                | 2.0/<br>2.0   |                               | 5             |                           |                                                                                            |
|                                        |                                                                                                                                           | 5500<br>0.0                |               |                               | 5             |                           |                                                                                            |
| 6.0                                    |                                                                                                                                           | 5800<br>0.0                |               | SLD 72473<br>1450             | 4             |                           | archive sample from 5.5-6.0' BGS                                                           |
| 7.0                                    | TD: 6.0' BGS<br>10-30-02<br>1450                                                                                                          |                            |               |                               |               |                           | Backgrounds<br>NAT: 5400<br>PID: 0.0                                                       |
| 8.0                                    |                                                                                                                                           |                            |               |                               |               |                           | Backfilled<br>boring w/<br>3.0 bags of<br>benzomite<br>chips. Capped<br>boring w/<br>soil. |
| 9.0                                    |                                                                                                                                           |                            |               |                               |               |                           |                                                                                            |
| 10.0                                   |                                                                                                                                           |                            |               |                               |               |                           |                                                                                            |

540 72474

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                              |                             |                  |                   |                    | HOLE NUMBER<br>SLD 72474                                                                                                  |  |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------|------------------|-------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------|--|
| PROJECT<br>FUSRAP/SLDS                 |                                                                                                              | INSPECTOR<br>Philip Stalter |                  |                   |                    | SHEET<br>2 OF 2                                                                                                           |  |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS                                                                                     | WATER<br>LEVEL<br>(ft)      | RECOVERY<br>(ft) | SLD<br>NUMBER     | BLOW COUNT<br>(ft) | REMARKS                                                                                                                   |  |
| 1.0                                    | silty clay w/ few med. to coarse gravel, stiff, med. plat, dk brg., dry, few cinders and slag, trace bricks. | 5400<br>0.0                 | 1.3              | SLD 72474<br>1645 | 8                  |                                                                                                                           |  |
|                                        | brick stuck in tip                                                                                           | 5900<br>0.0                 | 2.0              | SLD 72474<br>1645 | 8                  |                                                                                                                           |  |
|                                        |                                                                                                              | 6000<br>0.0                 |                  |                   | 11                 |                                                                                                                           |  |
| 2.0                                    |                                                                                                              | N/A                         | no recovery      |                   | 8                  |                                                                                                                           |  |
|                                        | brick frags.                                                                                                 | 5400<br>0.0                 | 1.8              |                   | 5                  |                                                                                                                           |  |
|                                        |                                                                                                              | 5100<br>0.0                 | 2.0              |                   | 2                  |                                                                                                                           |  |
| 3.0                                    | brick frags.                                                                                                 | 5200<br>0.0                 |                  | SLD 72474<br>1650 | 3                  |                                                                                                                           |  |
|                                        | weathered wood frag.                                                                                         | 5300<br>0.0                 |                  |                   | 3                  |                                                                                                                           |  |
| 4.0                                    |                                                                                                              | 5400<br>0.0                 | 2.0              |                   | 2                  |                                                                                                                           |  |
|                                        | Clay becoming lt. gray, cinders, clags and bricks absent.                                                    | 5200<br>0.0                 | 2.0              |                   | 3                  |                                                                                                                           |  |
| 5.0                                    | weathered wood frag.                                                                                         | 5700<br>0.0                 |                  | SLD 72474<br>1655 | 2                  |                                                                                                                           |  |
|                                        |                                                                                                              | 5000<br>0.0                 |                  |                   | 4                  |                                                                                                                           |  |
| 6.0                                    | weathered wood frag.                                                                                         |                             |                  |                   |                    |                                                                                                                           |  |
| 7.0                                    | TD = 6.0' BGs<br>10-30-02<br>1645                                                                            |                             |                  |                   |                    | Background:<br>NaFi 5400<br>PDI: 0.0<br>Back-filled<br>boring w/<br>3.0 bags of<br>bentonite<br>chips. Capped<br>w/ soil. |  |
| 8.0                                    |                                                                                                              |                             |                  |                   |                    |                                                                                                                           |  |
| 9.0                                    |                                                                                                              |                             |                  |                   |                    |                                                                                                                           |  |
| 10.0                                   |                                                                                                              |                             |                  |                   |                    |                                                                                                                           |  |

# STRAW DRILLING LOG

54. Loy's

FILE NUMBER  
CLD 72475

1 2

Tract V.P.

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\_\_\_\_\_

37-02

\_\_\_\_\_

12

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— 200 —

21. TOTAL CORE RECOVERY  $\emptyset$  2

John

to scale  
to describe 3/4

5 7/16

5-10%

5-2570

20-35-31  
50-1002

[illegible]

2466

.....

[illegible]

| Age Group | 2006 | 2007 | 2008 |
|-----------|------|------|------|
| 18-29     | ~85  | ~90  | ~95  |
| 30-49     | ~75  | ~80  | ~85  |
| 50-69     | ~65  | ~70  | ~75  |
| 70+       | ~55  | ~60  | ~65  |

\_\_\_\_\_

.....

+

10

1. The first part of the document is a list of names and addresses, which appears to be a directory or a list of contacts. The names are written in a cursive script, and the addresses are listed below them. The list includes names such as "J. H. Smith", "W. J. Jones", and "A. B. Brown", among others.

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7247

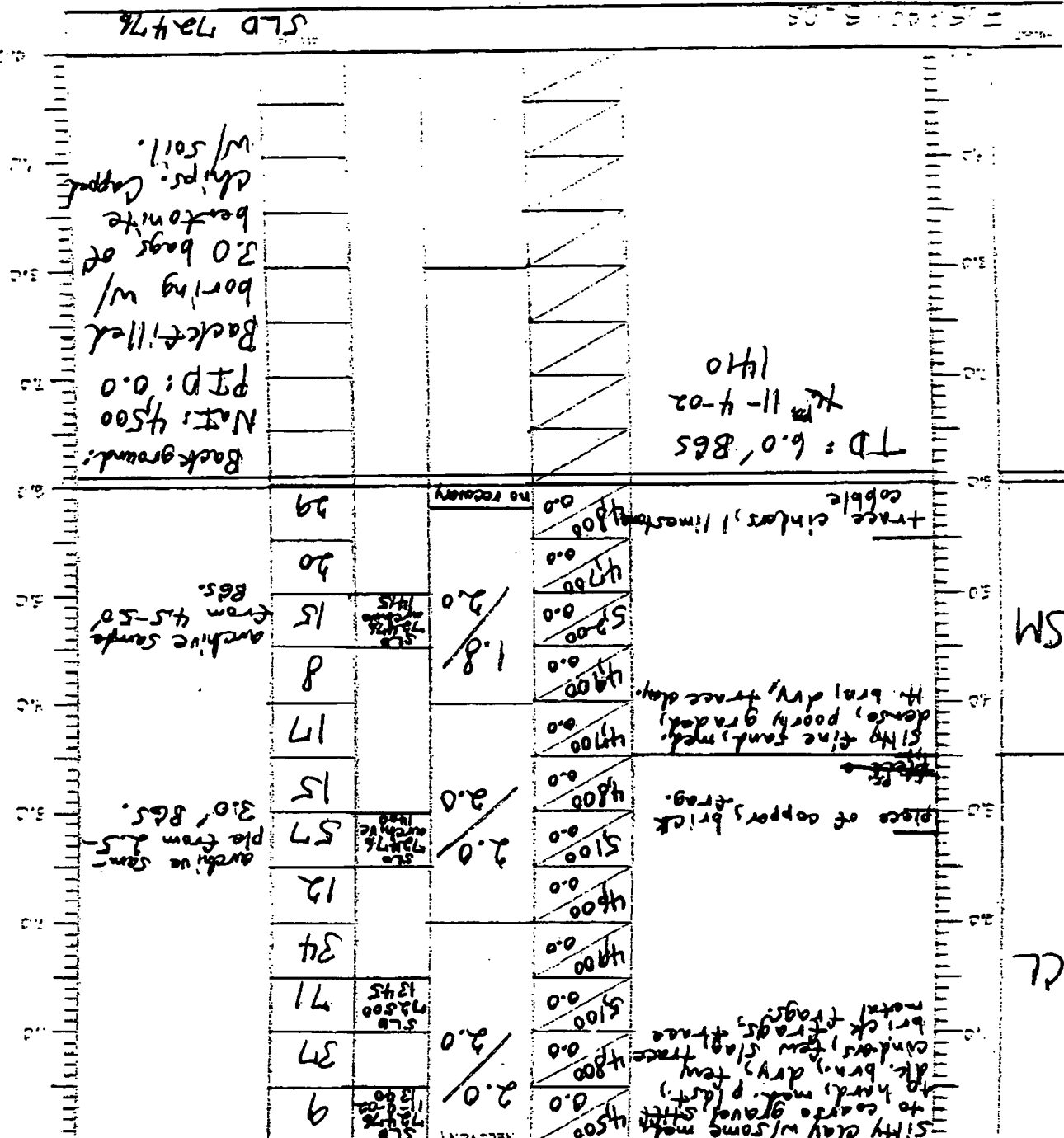
• **Figure 1:** A line graph showing the relationship between the number of hours spent studying and the score on a test. The x-axis is labeled "Hours Studied" and ranges from 0 to 10. The y-axis is labeled "Test Score" and ranges from 0 to 100. The data points are (0, 0), (2, 20), (4, 40), (6, 60), (8, 80), and (10, 100). A straight line is drawn through these points, starting at the origin (0,0) and ending at (10,100).

EM 1110-1-4000  
1 Nov 88

| -TRW DRILLING LOG |                                                                                                          | CONTINUATION SHEET |          | HOLE NUMBER    |                                                                                                                           |
|-------------------|----------------------------------------------------------------------------------------------------------|--------------------|----------|----------------|---------------------------------------------------------------------------------------------------------------------------|
| EUS RAP/SLOS      |                                                                                                          | PHI/MIR STAT/CR    |          | SLO 72475      |                                                                                                                           |
| DEPTH             | DESCRIPTION OF MATERIALS                                                                                 | NEUTRON LOG        | RECOVERY | SLW CORRECTION | REMARKS                                                                                                                   |
| SM                | Silty fine sand w/some med to coarse gravel, med. dense, poorly graded dk. brn., dry, trace brick frags. | 4400<br>0.0        | 2.0      | SLB 72475 1435 | 26                                                                                                                        |
| 1.0               | trace cinders and slag, trace metal                                                                      | 4500<br>0.0        | 2.0      |                | 83                                                                                                                        |
|                   |                                                                                                          | 4100<br>0.0        |          |                | 12                                                                                                                        |
| 2.0               | Silty clay, silty to very silty, med. platy, M. brn., dry.                                               | 4700<br>0.0        |          | SLB 72475 1435 | 14                                                                                                                        |
|                   | trace cinders, slag, metal                                                                               | 5300<br>0.0        |          |                | 12                                                                                                                        |
| 3.0               | trace limestone cobbles, few fine sand                                                                   | 4700<br>0.0        | 2.0      |                | 21                                                                                                                        |
|                   |                                                                                                          | 4800<br>0.0        | 2.0      |                | 27                                                                                                                        |
| 4.0               |                                                                                                          | 5300<br>0.0        |          | SLB 72475 1435 | 19                                                                                                                        |
|                   |                                                                                                          | 4400<br>0.0        |          |                | 8                                                                                                                         |
| 5.0               | few cinders and slag                                                                                     | 4800<br>0.0        | 2.0      |                | 10                                                                                                                        |
|                   |                                                                                                          | 4500<br>0.0        | 2.0      |                | 9                                                                                                                         |
|                   |                                                                                                          | 4700<br>0.0        |          | SLB 72475 1435 | 20                                                                                                                        |
| 6.0               | TD: 6.0' BGS<br>10-31-02<br>1430                                                                         |                    |          |                | Background:<br>Nat = 4200<br>PFD: 0.0<br>Backfilled<br>boring w/<br>3.0 bags of<br>bentonite<br>chips. Capped<br>w/ soil. |
| 7.0               |                                                                                                          |                    |          |                |                                                                                                                           |
| 8.0               |                                                                                                          |                    |          |                |                                                                                                                           |
| 9.0               |                                                                                                          |                    |          |                |                                                                                                                           |
| 10.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 11.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 12.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 13.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 14.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 15.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 16.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 17.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 18.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 19.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 20.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 21.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 22.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 23.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 24.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 25.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 26.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 27.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 28.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 29.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 30.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 31.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 32.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 33.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 34.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 35.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 36.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 37.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 38.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 39.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 40.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 41.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 42.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 43.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 44.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 45.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 46.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 47.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 48.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 49.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 50.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 51.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 52.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 53.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 54.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 55.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 56.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 57.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 58.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 59.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 60.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 61.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 62.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 63.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 64.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 65.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 66.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 67.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 68.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 69.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 70.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 71.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 72.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 73.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 74.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 75.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 76.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 77.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 78.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 79.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 80.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 81.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 82.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 83.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 84.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 85.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 86.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 87.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 88.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 89.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 90.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 91.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 92.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 93.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 94.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 95.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 96.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 97.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 98.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 99.0              |                                                                                                          |                    |          |                |                                                                                                                           |
| 100.0             |                                                                                                          |                    |          |                |                                                                                                                           |









| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                               |                                |                                  |                     |                 | WELL NUMBER<br>SLD 72477                                                                                |
|----------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------|----------------------------------|---------------------|-----------------|---------------------------------------------------------------------------------------------------------|
| PROJECT<br>FUSRAP / SLD5               |                                                                                               | INSPECTOR<br>Phillip Staller   |                                  | SHEET 2 of 2        |                 |                                                                                                         |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS<br>(ft)                                                              | APPROXIMATE<br>RECOVERY<br>(%) | ANALYTICAL<br>SAMPLE NO.<br>(ft) | BLOW COUNT<br>(ft)  | REMARKS<br>(ft) |                                                                                                         |
| 1.0                                    | silty fine sand w/ fine clay, loose to med. dense, poorly graded, dk. brn.; dry, few cinders. | 7900 0.0                       | RECOVERY                         | SLD 72477 19.5-20.5 | 15              |                                                                                                         |
|                                        |                                                                                               | 6100 0.0                       | 1.3 / 2.0                        |                     | 12              |                                                                                                         |
|                                        | trace med. gravel.                                                                            | 7000 0.0                       |                                  | SLD 72501 1445      | 10              |                                                                                                         |
| 2.0                                    |                                                                                               | N/A N/A                        | no recovery                      |                     | 8               |                                                                                                         |
|                                        | clay increasing                                                                               | 7600 0.0                       |                                  |                     | 5               |                                                                                                         |
|                                        | few limestone frags, trace brick frags.                                                       | 6500 0.0                       | 1.8 / 2.0                        | SLD 72515 1425      | 5               |                                                                                                         |
| 3.0                                    |                                                                                               | 7900 0.0                       |                                  |                     | 5               |                                                                                                         |
|                                        |                                                                                               | 7400 0.0                       |                                  |                     | 7               |                                                                                                         |
| 4.0                                    | clay absent                                                                                   | 7200 0.0                       | no recovery                      |                     | 3               |                                                                                                         |
|                                        |                                                                                               | 7500 0.0                       |                                  |                     | 6               |                                                                                                         |
| 5.0                                    |                                                                                               | 7400 0.0                       | 2.0 / 2.0                        | SLD 72503 1435      | 7               |                                                                                                         |
| 6.0                                    | silty sand textured                                                                           | 6700 0.0                       |                                  |                     | 10              |                                                                                                         |
| 7.0                                    | TD: 6.0' BGS<br>12-9-02<br>1425                                                               |                                |                                  |                     |                 | Back ground:<br>Net: 7400<br>PTD: 0.0<br>Back-filled<br>boring w/<br>3.0 bags of<br>bentonite<br>chips. |
| 8.0                                    |                                                                                               |                                |                                  |                     |                 |                                                                                                         |
| 9.0                                    |                                                                                               |                                |                                  |                     |                 |                                                                                                         |
| 10.0                                   |                                                                                               |                                |                                  |                     |                 |                                                                                                         |

PROJECT FUSRAP / SLD5

WELL NO. SLD 72477



| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                           |                              |                 |                               |                | WELL NUMBER<br>SLP 72478                                     |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------|-------------------------------|----------------|--------------------------------------------------------------|
| PROJECT<br>FUSRAP/SLDS                 |                                                                                                                           | INSPECTOR<br>Phillip Statler |                 |                               |                | SHEET 2 OF 2 SHEETS                                          |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS<br>(1)                                                                                           | WELL ID<br>PIP ID            | RECOVERY<br>(1) | WELL ID<br>SLP                | WELL ID<br>SLP | REMARKS<br>(2)                                               |
| 1.0                                    | Silty fine sand w/ few med. gravel, loose to med. dense, poorly graded, dk. brn. to b/k, few clay, some undrs, some slag. | 7,800<br>0.0                 | 1.9/<br>2.0     | SLP 72478<br>12-10-02<br>1030 | 16             |                                                              |
|                                        |                                                                                                                           | 7,900<br>0.0                 |                 |                               | 18             |                                                              |
|                                        |                                                                                                                           | 7,500<br>0.0                 |                 | 419.2                         | 14             |                                                              |
| 2.0                                    | cinders and slag increasing.                                                                                              | 8,000<br>0.0                 | no recovery     | SLP 72502<br>1035             | 7              |                                                              |
|                                        |                                                                                                                           | 7,900<br>0.0                 | 1.8/<br>2.0     | 418.7                         | 7              |                                                              |
| 3.0                                    |                                                                                                                           | 7,900<br>0.0                 |                 |                               | 5              |                                                              |
|                                        |                                                                                                                           | 7,100<br>0.0                 |                 |                               | 5              |                                                              |
| 4.0                                    | PS<br>Silty sand becoming lt. gray, cinders, slag, and med. gravel absent.                                                | 8,700<br>0.0                 | no recovery     | SLP 72516<br>1050             | 5              |                                                              |
|                                        |                                                                                                                           | 8,100<br>0.0                 |                 |                               | 6              |                                                              |
| 5.0                                    | trace wood frags                                                                                                          | 8,200<br>0.0                 | 2.0/<br>2.0     | SLP 72524<br>1100             | 12             |                                                              |
|                                        |                                                                                                                           | 8,000<br>0.0                 |                 |                               | 11             |                                                              |
| 6.0                                    |                                                                                                                           | 7,300<br>0.0                 |                 |                               | 11             |                                                              |
| 7.0                                    | TD: 6.0' 865<br>12-10-02<br>1050                                                                                          |                              |                 |                               |                | Background:<br>NAT: 7800<br>PIP: 0.0                         |
| 8.0                                    |                                                                                                                           |                              |                 |                               |                | Backfilled<br>boring w/<br>3.0 bags of<br>bentonite<br>chips |
| 9.0                                    |                                                                                                                           |                              |                 |                               |                |                                                              |
| 10.0                                   |                                                                                                                           |                              |                 |                               |                |                                                              |



EM 1110-1-4000  
1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                          |                 |             | HOLE NUMBER                     |                                                                                                         |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------|-------------|---------------------------------|---------------------------------------------------------------------------------------------------------|
| PROJECT                                |                                                                                                                          | INSPECTOR       |             | SHEET                           |                                                                                                         |
| FUSRAP/SLDS                            |                                                                                                                          | Phillip Statler |             | SLD 72479                       |                                                                                                         |
| DEPTH                                  | DESCRIPTION OF MATERIALS                                                                                                 | NEAR-SIDE       | RECOVERY    | SLD                             | REMARKS                                                                                                 |
| 1.0                                    | silty clay w/ few fine sand, med. stiff, dk. brn. to blk. dry, few med. gravel, few cinders, few slag, trace wood frags. | 7600<br>0.0     | 2.0         | SLD 72479<br>12-10-02<br>1335   | 6                                                                                                       |
|                                        |                                                                                                                          | 7400<br>0.0     | 2.0         |                                 | 8                                                                                                       |
|                                        |                                                                                                                          | 8200<br>0.0     |             | SLD 72503<br>1335               | 10                                                                                                      |
|                                        |                                                                                                                          | 8000<br>0.0     |             |                                 | 8                                                                                                       |
| 2.0                                    | cinders and slag increasing                                                                                              | 7300<br>0.0     | 1.5         |                                 | 5                                                                                                       |
|                                        |                                                                                                                          | 7100<br>0.0     | 2.0         |                                 | 3                                                                                                       |
| 3.0                                    |                                                                                                                          | 8500<br>0.0     |             | SLD 72479<br>archive<br>1340    | 6                                                                                                       |
|                                        |                                                                                                                          | N/A<br>N/A      | no recovery |                                 | 4                                                                                                       |
| 4.0                                    | moist                                                                                                                    | 6300<br>0.0     | 1.8         |                                 | 3                                                                                                       |
|                                        | day turning lt. brn.                                                                                                     | 7800<br>0.0     | 2.0         |                                 | 4                                                                                                       |
| 5.0                                    |                                                                                                                          | 8000<br>0.0     |             |                                 | 5                                                                                                       |
|                                        |                                                                                                                          | 8100<br>0.0     |             | SLD 72479<br>archive<br>1350-13 | 6                                                                                                       |
| 6.0                                    |                                                                                                                          |                 | no recovery |                                 |                                                                                                         |
|                                        | TD: 6.0' BGS<br>12-10-02<br>1340                                                                                         |                 |             |                                 | Back ground:<br>NaF: 7800<br>PID: 0.0<br>Back filled<br>boring w/<br>3.0 bags of<br>bentonite<br>chips. |

FUSRAP/SLDS

SLD 72479

ENG FORM 1056A-7, AUG 94





| WATER DRILLING LOG |                                                                                                                                                                                                                               | CONTINUATION SHEET              |             | SLB 72482 GC                   |         |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------|--------------------------------|---------|
| PROJECT            |                                                                                                                                                                                                                               | OPERATOR                        |             | SHEET                          |         |
| SLB 72482 GC       |                                                                                                                                                                                                                               | Phillip Statler                 |             | 2                              |         |
| DEPTH              | DESCRIPTION OF MATERIAL                                                                                                                                                                                                       | WATER                           | RECOVERY    | SLB                            | REMARKS |
| 4130.6             | SM<br>silty fine sand w/ some med. to coarse gravel, med dense to very dense, poorly gradat, dk brn, few wood frags, trace broken glass, dry, trace slag.<br><br>Piece of copper, 2 bolts.                                    | 5100<br>0.0                     | 1.7<br>2.0  | SLB 72482, -1, -2 11-4-02 1115 | 19      |
|                    |                                                                                                                                                                                                                               | 4500<br>0.0                     |             |                                | 35      |
|                    |                                                                                                                                                                                                                               | 4800<br>0.0                     |             | SLB 72506 1120                 | 57      |
|                    |                                                                                                                                                                                                                               | N/A                             | no recovery |                                | 99      |
|                    |                                                                                                                                                                                                                               | N/A                             |             |                                |         |
| 4130.6             | CL<br>silty clay, med. stiff to very stiff, med plant, dk. brn, few cinders, few slag, few brick frags, few med. to coarse gravel, dry.<br><br>cinders and slag absent.<br>few broken glass frags.<br>trace cinders and slag. | 5300<br>0.0                     | 2.0<br>2.0  |                                | 13      |
| 4130.6             |                                                                                                                                                                                                                               | 5000<br>0.0                     |             |                                | 16      |
| 4130.6             |                                                                                                                                                                                                                               | 5500<br>0.0                     |             |                                | 16      |
| 4130.6             |                                                                                                                                                                                                                               | 5600<br>0.0                     |             | SLB 72482 GC archive 1125      | 19      |
| 4130.6             |                                                                                                                                                                                                                               | 4800<br>0.0                     | 2.0<br>2.0  |                                | 8       |
| 4130.6             |                                                                                                                                                                                                                               | 5400<br>0.0                     |             | SLB 72506 archive 1135         | 8       |
| 4130.6             |                                                                                                                                                                                                                               | 5000<br>0.0                     |             |                                | 12      |
| 4130.6             |                                                                                                                                                                                                                               | 5200<br>0.0                     |             |                                | 8       |
| 4130.6             |                                                                                                                                                                                                                               | TD: 6.0' BGS<br>11-4-02<br>1125 |             |                                |         |

SLB 72482 GC

| HTRW DRILLING LOG                                                                                                      |  |                                                                                                                 |  | St. Louis                             |  | SLO 72483<br>72484                    |  |
|------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------|--|---------------------------------------|--|---------------------------------------|--|
| 1. CONTRACT NAME<br>Shaw E & I                                                                                         |  | 2. DRILLING CONTRACTOR<br>MES, Inc.                                                                             |  | 3. SHEET NUMBER<br>1 of 2             |  |                                       |  |
| 4. PROJECT<br>FUSRAP/SLDS                                                                                              |  | 5. LOCATION<br>PSC Metals North Tract V.P.                                                                      |  |                                       |  |                                       |  |
| 6. NAME OF DRILLER<br>Chris Anthony                                                                                    |  | 7. MANUFACTURER/DESCRIPTION OF DRILL<br>Diedrich D-120                                                          |  |                                       |  |                                       |  |
| 8. TYPES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using 4 1/4" HSA and<br>3" x 2" split spoon |  | 9. HOLE LOCATION<br>see location sketch                                                                         |  |                                       |  |                                       |  |
|                                                                                                                        |  | 10. SURFACE ELEVATION<br>N/A                                                                                    |  |                                       |  |                                       |  |
| 11. DATE<br>PED 11-4-02 NAI                                                                                            |  | 12. LOG<br>LUD 172040                                                                                           |  | 13. DATE STARTED<br>11-4-02           |  | 14. DATE COMPLETED<br>11-4-02         |  |
| 15. DEPTH TO WATER ENCOUNTERED<br>N/A                                                                                  |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A                                             |  |                                       |  |                                       |  |
| 17. TOTAL DEPTH OF HOLE<br>2.0 FT BGS                                                                                  |  | 18. OTHER WATER LEVEL MEASUREMENTS, SPECIFY<br>N/A                                                              |  |                                       |  |                                       |  |
| 19. TEST/TECHNICAL SAMPLE<br>0                                                                                         |  | 20. TEST/TECHNICAL SAMPLE<br>0                                                                                  |  | 21. TEST/TECHNICAL SAMPLE<br>0        |  | 22. TOTAL NUMBER OF CORE SAMPLES<br>0 |  |
| 23. SAMPLE FOR CHEMICAL ANALYSIS<br>0                                                                                  |  | 24. SAMPLE FOR CHEMICAL ANALYSIS<br>0                                                                           |  | 25. SAMPLE FOR CHEMICAL ANALYSIS<br>0 |  | 26. TOTAL CORE RECOVERED<br>0         |  |
| 27. CORRECTION OF LOG<br>0                                                                                             |  | 28. CORRECTION OF LOG<br>Yes                                                                                    |  | 29. CORRECTION OF LOG<br>N/A          |  | 30. CORRECTION OF LOG<br>N/A          |  |
| LOCATION SKETCH COMMENTS<br>North.                                                                                     |  | Witnessed by: Keith Enders                                                                                      |  | SCALE: Not to Scale                   |  |                                       |  |
|                                                                                                                        |  | Terms used to describe %<br>Trace - < 5%<br>Few - 5-10%<br>Little - 15-25%<br>Some - 20-35%<br>Mostly - 50-100% |  |                                       |  |                                       |  |
|                                                                                                                        |  |                                                                                                                 |  |                                       |  |                                       |  |
|                                                                                                                        |  |                                                                                                                 |  |                                       |  |                                       |  |
|                                                                                                                        |  |                                                                                                                 |  |                                       |  |                                       |  |
|                                                                                                                        |  |                                                                                                                 |  |                                       |  |                                       |  |
| FUSRAP/ELDS                                                                                                            |  | SLO 72483<br>SLO 72484                                                                                          |  |                                       |  |                                       |  |

| WATER DRILLING LOG (CONTINUATION SHEET) |                                                                                                                                                                                       | PROJECT                  |       | SHEET   |                                              |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------|---------|----------------------------------------------|
| LOG NO. 524015.05                       |                                                                                                                                                                                       | OPERATOR Phillip Statler |       | SHEET 2 |                                              |
| DEPTH                                   | DESCRIPTION OF MATERIAL                                                                                                                                                               | RECOVERY                 | SLIP  | BLW     | REMARKS                                      |
| 0.0                                     | Silty clay w/ some med. and some coarse gravel, very stiff to hard, med. plastic, blk brn, dry, few clindars and slag, few broken glass, trace black frag, trace metal, trace rubber. | 5100 0.0                 | 17495 | 18      | SLD 72483                                    |
| 1.0                                     |                                                                                                                                                                                       | 4800 0.0                 | 17495 | 50      |                                              |
| 2.0                                     |                                                                                                                                                                                       | 4500 0.0                 | 17495 | 97      | (SLD 72507)                                  |
| 3.0                                     |                                                                                                                                                                                       | 4400 0.0                 | 17495 | 75      | Hit refusal at 2.0' BGS (Concrete and metal) |
| 4.0                                     | TD: 2.0' BGS                                                                                                                                                                          |                          |       |         | Background:                                  |
| 5.0                                     | 11-4-02                                                                                                                                                                               |                          |       |         | NaI: 4500                                    |
| 6.0                                     | 1445                                                                                                                                                                                  |                          |       |         | PID: 0.0                                     |
| 7.0                                     |                                                                                                                                                                                       |                          |       |         | Back-filled                                  |
| 8.0                                     |                                                                                                                                                                                       |                          |       |         | boring w/                                    |
| 9.0                                     |                                                                                                                                                                                       |                          |       |         | 1.0 bags                                     |
| 10.0                                    |                                                                                                                                                                                       |                          |       |         | of benton                                    |
| 11.0                                    |                                                                                                                                                                                       |                          |       |         | ite chips.                                   |
| 12.0                                    |                                                                                                                                                                                       |                          |       |         | Capped w/                                    |
| 13.0                                    |                                                                                                                                                                                       |                          |       |         | soil.                                        |
| 14.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 15.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 16.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 17.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 18.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 19.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 20.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 21.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 22.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 23.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 24.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 25.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 26.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 27.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 28.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 29.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 30.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 31.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 32.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 33.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 34.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 35.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 36.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 37.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 38.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 39.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 40.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 41.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 42.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 43.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 44.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 45.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 46.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 47.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 48.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 49.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 50.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 51.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 52.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 53.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 54.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 55.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 56.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 57.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 58.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 59.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 60.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 61.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 62.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 63.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 64.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 65.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 66.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 67.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 68.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 69.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 70.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 71.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 72.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 73.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 74.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 75.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 76.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 77.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 78.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 79.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 80.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 81.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 82.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 83.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 84.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 85.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 86.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 87.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 88.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 89.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 90.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 91.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 92.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 93.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 94.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 95.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 96.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 97.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 98.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 99.0                                    |                                                                                                                                                                                       |                          |       |         |                                              |
| 100.0                                   |                                                                                                                                                                                       |                          |       |         |                                              |

11-8-5

SLD 72483

# TRW DRILLING LOG

St. Louis

SLD 72484

|                                                                                                                  |  |                                                        |  |                             |  |
|------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------|--|-----------------------------|--|
| 1. COMPANY NAME<br>ECON F&I                                                                                      |  | 2. DRILLING INFORMATION<br>MES, Inc.                   |  | 3. WELL NUMBER<br>SLD 72484 |  |
| 4. PROJECT<br>FUS RAD / SLOS                                                                                     |  | 5. LOCATION<br>PSC Metals North Tract V.P.             |  |                             |  |
| 6. NAME OF WELL<br>Chris Anthony                                                                                 |  | 7. MANUFACTURER, DESCRIPTION OF WELL<br>Diedrich D-120 |  |                             |  |
| 8. SIZE AND TYPE OF LOGGING AND SURFACE EQUIPMENT<br>Diedrich D-120<br>Using 3/4" HSA and<br>3" x 2" split spoon |  | 9. HOLE LOCATION<br>SEE LOCATION SKETCH                |  |                             |  |
| 10. DATE STARTED<br>12-9-02                                                                                      |  | 11. DATE COMPLETED<br>12-9-02                          |  |                             |  |
| 12. DEPTH TO WATER ENCOUNTERED<br>N/A                                                                            |  | 13. DEPTH TO GAS ENCOUNTERED<br>N/A                    |  |                             |  |
| 14. DEPTH TO 100' AND ELAPSED TIME AFTER COLLING COMPLETED<br>N/A                                                |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A    |  |                             |  |
| 16. TOTAL DEPTH OF HOLE<br>6.0 FT BGS                                                                            |  | 17. TOTAL NUMBER OF CORE LOGS<br>0                     |  |                             |  |
| 18. CORE LOGS<br>0                                                                                               |  | 19. CORE LOGS<br>0                                     |  | 20. CORE LOGS<br>0          |  |
| 21. CORE LOGS<br>0                                                                                               |  | 22. CORE LOGS<br>0                                     |  | 23. CORE LOGS<br>0          |  |
| 24. CORE LOGS<br>0                                                                                               |  | 25. CORE LOGS<br>0                                     |  | 26. CORE LOGS<br>0          |  |
| 27. CORE LOGS<br>0                                                                                               |  | 28. CORE LOGS<br>0                                     |  | 29. CORE LOGS<br>0          |  |
| 30. CORE LOGS<br>0                                                                                               |  | 31. CORE LOGS<br>0                                     |  | 32. CORE LOGS<br>0          |  |

LOCATION SKETCH COMMENTS  
North

Witnessed by: Robin Parks SCALE: Not to Scale

Rob Parks

Terms used to describe %

Trace - < 5%  
Fen - 5-10%  
Little - 15-25%  
Some - 20-35%  
Mostly - 50-100%

SLD  
72481

SLD  
72485

(Moved 18' NW away  
from concrete pad/debris)

SLD 72484

SLD  
72483

Concrete Pad

SLD 72484

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                         |                              |                 |                   |                                                                                                          | HOLE NUMBER<br>SLD 72484 |
|----------------------------------------|---------------------------------------------------------------------------------------------------------|------------------------------|-----------------|-------------------|----------------------------------------------------------------------------------------------------------|--------------------------|
| PROJECT<br>FUSRAP/SLDS                 |                                                                                                         | INSPECTOR<br>Phillip Statler |                 | SHEET 2 OF 2      |                                                                                                          |                          |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS<br>(1)                                                                         | WATER<br>RECOVERY<br>(2)     | RECOVERY<br>(3) | BLOW COUNT<br>(4) | REMARKS<br>(5)                                                                                           |                          |
| 1.0                                    | See SLD 72484.B for information                                                                         | N/A                          | N/A             | 12                | Poor recovery from 0.0 to 2.0' BGS.                                                                      |                          |
| 2.0                                    |                                                                                                         | N/A                          | N/A             | 106               |                                                                                                          |                          |
| 3.0                                    |                                                                                                         | N/A                          | N/A             | 6                 |                                                                                                          |                          |
| 4.0                                    |                                                                                                         | N/A                          | N/A             | 36                |                                                                                                          |                          |
| 5.0                                    | Silty clay w/ fine cinders, stiff to hard, med. plast. dk. brn. to blk; dry, few silt; few brick frags. | 4800<br>0.0                  | 2.0/<br>2.0     | 12                |                                                                                                          |                          |
| 6.0                                    |                                                                                                         | 4900<br>0.0                  |                 | 25                |                                                                                                          |                          |
| 7.0                                    |                                                                                                         | 5400<br>0.0                  |                 | 52                |                                                                                                          |                          |
| 8.0                                    |                                                                                                         | 5200<br>0.0                  |                 | 16                |                                                                                                          |                          |
| 9.0                                    |                                                                                                         | 5100<br>0.0                  | 2.0/<br>2.0     | 6                 |                                                                                                          |                          |
| 10.0                                   |                                                                                                         | 5100<br>0.0                  |                 | 6                 |                                                                                                          |                          |
| 11.0                                   |                                                                                                         | 4800<br>0.0                  |                 | 8                 |                                                                                                          |                          |
| 12.0                                   | turning lt. gry.                                                                                        | 4800<br>0.0                  |                 | 17                |                                                                                                          |                          |
| 13.0                                   | TD: 6.0' BGS<br>12-9-02<br>1100                                                                         |                              |                 |                   | Back ground:<br>Wat: 4500<br>PIP: 0.0<br>Backfilled<br>boring w/<br>3.0 bags<br>of benton-<br>ite chips. |                          |
| 14.0                                   |                                                                                                         |                              |                 |                   |                                                                                                          |                          |
| 15.0                                   |                                                                                                         |                              |                 |                   |                                                                                                          |                          |
| 16.0                                   |                                                                                                         |                              |                 |                   |                                                                                                          |                          |
| 17.0                                   |                                                                                                         |                              |                 |                   |                                                                                                          |                          |
| 18.0                                   |                                                                                                         |                              |                 |                   |                                                                                                          |                          |
| 19.0                                   |                                                                                                         |                              |                 |                   |                                                                                                          |                          |
| 20.0                                   |                                                                                                         |                              |                 |                   |                                                                                                          |                          |

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DATE 05-17-2014 BY 60322 UCBAW

St. Louis

~~ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED~~  
DATE 05-17-2014 BY 60322 UCBAW

|               |                    |         |
|---------------|--------------------|---------|
| CONTRACT NAME | SELLING CONTRACTOR | DATE    |
| Shaw F & I    | MES, Inc.          | 1/24/75 |

|               |                             |
|---------------|-----------------------------|
| FUSRAP / SLDS | PSC Metals North Tract V.P. |
|---------------|-----------------------------|

|                  |                                    |
|------------------|------------------------------------|
| 1. NAME OF DEEDS | 2. MANUFACTURE, DENEGATION OF DEED |
| Chris Anthony    | Diedrich D-120                     |

|                                                      |                                             |                                         |
|------------------------------------------------------|---------------------------------------------|-----------------------------------------|
| 2. TESTS AND TYPES OF DRILLING AND CAMPING EQUIPMENT | Diedrich D-120<br>using 2 1/4" x 4 1/2" and | 3. HOLE LOCATION<br>See location sketch |
|------------------------------------------------------|---------------------------------------------|-----------------------------------------|

3" x 2' split spoon

|                                                                                                                                                                                                                              |                                                            |                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------|
| <p> <math>P=0</math> <math>12-9-42</math> <math>AC=</math> <math>LVD</math> <math>172046</math><br/> <math>\pm</math> <math>104/106</math> <math>Col</math> <math>106</math> <math>4-15-47</math> <math>AKG=4508</math> </p> | <p> <i>10. DATE STARTED</i><br/> <math>12-9-42</math> </p> | <p> <i>11. DATE DONE</i><br/> <math>12-9-42</math> </p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------|

|                 |                                  |
|-----------------|----------------------------------|
| 1. YES/NO/OTHER | 15. DEPTH GROUNDWATER BEING USED |
| N/A             | N/A                              |

|                                    |                                                                     |
|------------------------------------|---------------------------------------------------------------------|
| 11. DEPTH DRILLED INTO ROCK<br>N/A | 15. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A |
|------------------------------------|---------------------------------------------------------------------|

|                        |            |                                             |     |
|------------------------|------------|---------------------------------------------|-----|
| 6. TOTAL DEPTH OF HOLE | 1.0 FT BGS | 7. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) | N/A |
|------------------------|------------|---------------------------------------------|-----|

| 1. ESTHETICAL SAMPLE | 2. COPIES | 3. ADJUSTED | 4. TOTAL NUMBER OF COPIES |
|----------------------|-----------|-------------|---------------------------|
| Ø                    | Ø         | Ø           | Ø                         |

| NO. SAMPLES FOR CHEMICAL ANALYSIS | TK | DETAL | OTHER SPECIF. | OTHER SPECIF. | OTHER SPECIF. | 21. TOTAL CORE RECOVERED |
|-----------------------------------|----|-------|---------------|---------------|---------------|--------------------------|
| 0                                 | 0  | 0     | RAD           | 0             | 0             | 0                        |

|                      |         |               |             |                      |
|----------------------|---------|---------------|-------------|----------------------|
| REPRODUCTION OF FILE | INDEXED | RECORDING RE. | OTHER INDEX | 23. SOURCE INSPECTOR |
| 0                    | Yes     | N/A           | N/A         | Mr. M. Hald          |

LOCATION SKETCH/COMMENTS Witnessed By: Robin Parks SCALE: Not to Scale

North. Terms Used - 6

*Red Pine Trace - < 5%*

Few - 5-10%

.....

Some = 20 = 35%  
M = 40 = 50 = 100%

110514 - 30 12018

5LD

72481

72485

\_\_\_\_\_

| DATE | DESCRIPTION | AMOUNT | BALANCE |
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| 2073 |             |        |         |
| 2074 |             |        |         |
| 2075 |             |        |         |
| 2076 |             |        |         |

SLD

724848

(Drilled having 

Due to poor recovery  
1st interval of SLD 72484 SLD 72484

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                             |                              |                 |                                 |                  |                                                         | WELL NUMBER<br>JLD 72484B |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------|-----------------|---------------------------------|------------------|---------------------------------------------------------|---------------------------|
| PROJECT<br>FUSRAP / JLD5               |                                                                                                             | INSPECTOR<br>Phillip Statler |                 | SHEET<br>2 of 2 SHEETS          |                  |                                                         |                           |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS<br>(1)                                                                             | NO. OF<br>SAMPLES<br>(2)     | RECOVERY<br>(3) | ANALYTICAL<br>SUPPLY NO.<br>(4) | 3.0W COST<br>(5) | REMARKS<br>(6)                                          |                           |
| CL                                     | Silty clay w/ some<br>med. gravel, med.<br>stiff to very stiff,<br>lty brn. gray, trace<br>cinders and slag | 4900<br>0.0                  | 0.8<br>1.0      | SLP<br>72484<br>12-9-02<br>1115 | 6<br>24          | hit refusal<br>at 1.0' EGS                              |                           |
| 1.0                                    |                                                                                                             | 5000<br>0.0                  | no recovery     |                                 |                  |                                                         |                           |
| 2.0                                    | TD : 1.0' BGS<br>12-9-02<br>1115                                                                            |                              |                 |                                 |                  | Background:<br>N.I.: 4500<br>PIP: 0.0                   |                           |
| 3.0                                    |                                                                                                             |                              |                 |                                 |                  | Backfilled<br>bearing w/<br>bag of<br>baronite<br>chips |                           |
| 4.0                                    |                                                                                                             |                              |                 |                                 |                  |                                                         |                           |
| 5.0                                    |                                                                                                             |                              |                 |                                 |                  |                                                         |                           |
| 6.0                                    |                                                                                                             |                              |                 |                                 |                  |                                                         |                           |
| 7.0                                    |                                                                                                             |                              |                 |                                 |                  |                                                         |                           |
| 8.0                                    |                                                                                                             |                              |                 |                                 |                  |                                                         |                           |
| 9.0                                    |                                                                                                             |                              |                 |                                 |                  |                                                         |                           |
| 10.0                                   |                                                                                                             |                              |                 |                                 |                  |                                                         |                           |

| HTRW DRILLING LOG                                                                                                                                                                                                       |  | St. Louis                                                           |  | HOLE NUMBER<br>SLD 72485            |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------|--|-------------------------------------|--|
| 1. CONTRACT NAME<br>Shaw F & I                                                                                                                                                                                          |  | 2. DRILLING CONTRACTOR<br>MES, Inc.                                 |  | 3. SHEET<br>1 of 2                  |  |
| 4. PROJECT<br>FUSRAP / SLOS                                                                                                                                                                                             |  | 5. LOCATION<br>PSC Metals North Tract V.P.                          |  |                                     |  |
| 6. NAME OF DRILLER<br>Chris Anthony                                                                                                                                                                                     |  | 7. MANUFACTURER DESIGNATION OF DRILL<br>Diedrich D-120              |  |                                     |  |
| 8. SIZES AND TYPES OF DRILLING AND CAMPING EQUIPMENT<br>Diedrich D-120<br>using 3 1/4" HSA and<br>3" x 2" Split Spoon                                                                                                   |  | 9. HOLE LOCATION<br>See location sketch                             |  |                                     |  |
|                                                                                                                                                                                                                         |  | 10. SURFACE ELEVATION<br>N/A                                        |  |                                     |  |
| 11. DATE STARTED<br>11-26-02                                                                                                                                                                                            |  | 12. DATE COMPLETED<br>11-26-02                                      |  |                                     |  |
| 13. DEPTH DRILLED INTO ROCK<br>N/A                                                                                                                                                                                      |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A |  |                                     |  |
| 15. TOTAL DEPTH OF HOLE<br>6.0 FT BGS                                                                                                                                                                                   |  | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                 |  |                                     |  |
| 17. TESTED/CHLORAMPHENICOL SAMPLE<br>0                                                                                                                                                                                  |  | 18. DISTURBED<br>0                                                  |  | 19. TOTAL NUMBER OF CORE BOXES<br>0 |  |
| 20. SAMPLE FOR CHEMICAL ANALYSIS<br>0                                                                                                                                                                                   |  | 21. SAMPLE<br>0                                                     |  | 22. OTHER SPECIFY<br>RAD            |  |
| 23. REPORT ON HOLE<br>0                                                                                                                                                                                                 |  | 24. MONITORING YES<br>N/A                                           |  | 25. OTHER SPECIFY<br>N/A            |  |
| 26. LOCATION SKETCH/COMMENTS<br>North.<br>Witnessed By: Keith Enders                                                                                                                                                    |  |                                                                     |  |                                     |  |
| <div style="float: right; border: 1px solid black; padding: 5px;"> <p>Terms used to describe %</p> <p>Trace - &lt; 5%</p> <p>Few - 5-10%</p> <p>Little - 15-25%</p> <p>Some - 20-35%</p> <p>Mostly - 50-100%</p> </div> |  |                                                                     |  |                                     |  |
| <div style="text-align: center;"> <p>SLD 72418</p> <p>SLD 72486</p> <p>SLD 72481</p> <p>SLD 72485 (moved boring 5' to NW due to debris)</p> </div>                                                                      |  |                                                                     |  |                                     |  |
| FUSRAP / SLOS                                                                                                                                                                                                           |  | SLD 72485                                                           |  |                                     |  |



EM 1110-7-1000  
1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                                                                                       |                |           |                         |                                        |                                                                                  |  |      |  |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------|-------------------------|----------------------------------------|----------------------------------------------------------------------------------|--|------|--|
| PROJECT                                |                                                                                                                                                                                       | INSPECTOR      |           | HOLE NUMBER             |                                        | SHEET                                                                            |  | PAGE |  |
| EUSRAP/SLOS                            |                                                                                                                                                                                       | Philip Statler |           | SLD 72485               |                                        | 2                                                                                |  | 2    |  |
| DEPTH                                  | DESCRIPTION OF MATERIALS                                                                                                                                                              | WATER          | RECOVERY  | SLD                     | SLOW CENT                              | REMARKS                                                                          |  |      |  |
| 0.0                                    | silty fine sand w/some med. to coarse gravel, med. dense to very dense, poorly graded, lt. brn, dry, few cinders, few slag, trace brick frags, trace broken glass, trace metal frags. | 4800           | 2.0 / 2.0 | SLD 72485 11-26-02 1320 | 23                                     | (1315)                                                                           |  |      |  |
| 1.0                                    |                                                                                                                                                                                       | 4500           |           | 125                     |                                        |                                                                                  |  |      |  |
| 2.0                                    |                                                                                                                                                                                       | 3800           |           | 23                      |                                        |                                                                                  |  |      |  |
| 3.0                                    |                                                                                                                                                                                       | 4800           |           | 15                      |                                        |                                                                                  |  |      |  |
| 4.0                                    |                                                                                                                                                                                       | 4400           | 13 / 2.0  | 19                      | archive sample from 2.8-3.3 BGS (1330) |                                                                                  |  |      |  |
| 5.0                                    |                                                                                                                                                                                       | 4700           |           | 19                      |                                        |                                                                                  |  |      |  |
| 6.0                                    |                                                                                                                                                                                       | 5000           |           | 11                      |                                        |                                                                                  |  |      |  |
| 7.0                                    |                                                                                                                                                                                       | N/A            |           | 14                      |                                        |                                                                                  |  |      |  |
| 8.0                                    | silty clay, med. stiff to stiff, med. plast, lt. brn, dry. few brick frags. few wood frags.                                                                                           | 4700           | 2.0 / 2.0 | 3                       | archive sample from 5.5-6.0 BGS (1340) |                                                                                  |  |      |  |
| 9.0                                    |                                                                                                                                                                                       | 4600           |           | 5                       |                                        |                                                                                  |  |      |  |
| 10.0                                   |                                                                                                                                                                                       | 4700           |           | 7                       |                                        |                                                                                  |  |      |  |
| 11.0                                   |                                                                                                                                                                                       | 5100           |           | 13                      |                                        |                                                                                  |  |      |  |
| 12.0                                   | TD: 6.0' BGS 11-26-02 1320                                                                                                                                                            |                |           |                         |                                        | Background NAT: 4300 PID: 0.0 Back filled boring w/ 3.0 bags of bentonite chips. |  |      |  |



| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                                                   | PROJECT: FUSRAP/SLDS |          | INSPECTOR: Phillip Statler |     | FILE NUMBER: SLD 72486                                                                    |  |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------|----------------------------|-----|-------------------------------------------------------------------------------------------|--|
| DEPTH                                  | DESCRIPTION OF MATERIALS                                                                                                                          | WATER                | RECOVERY | SLP                        | SLW | REMARKS                                                                                   |  |
| 0.0                                    | Silty fine sand w/ few med. gravel, med. dense to dense, poorly graded dk. brn., dry, few cinders, few slag, few brick frags, trace broken glass. | 4400                 | 0.0      | SLP 72486 11-26-02         | 32  | (no P.S. (11-26-02) (1020)                                                                |  |
| 1.0                                    |                                                                                                                                                   | 4400                 | 0.0      |                            | 28  |                                                                                           |  |
|                                        |                                                                                                                                                   | 4500                 | 0.0      | SLP 72486 1025             | 40  |                                                                                           |  |
| 2.0                                    |                                                                                                                                                   | 4200                 | 0.0      | no recovery                | 35  |                                                                                           |  |
| 3.0                                    | silty clay, med. stiff to stiff, med. plastic, dk. brn. to gry., dry, few brick frags, trace cinders.                                             | 4900                 | 0.0      |                            | 7   | archive sample from 3.5 - 4.0 BGS                                                         |  |
|                                        |                                                                                                                                                   | 4400                 | 0.0      | 2.0 / 2.0                  | 13  |                                                                                           |  |
|                                        |                                                                                                                                                   | 4500                 | 0.0      |                            | 12  |                                                                                           |  |
| 4.0                                    |                                                                                                                                                   | 5100                 | 0.0      | SLP 72486 1036             | 14  |                                                                                           |  |
| 5.0                                    | bricks and cinders absent.                                                                                                                        | 4800                 | 0.0      |                            | 4   | archive sample from 5.4 - 5.9 BGS (5.4-5.9 BGS) (1040)                                    |  |
|                                        |                                                                                                                                                   | 4500                 | 0.0      | 1.9 / 2.0                  | 6   |                                                                                           |  |
|                                        |                                                                                                                                                   | 4800                 | 0.0      | P.S.                       | 5   |                                                                                           |  |
| 6.0                                    |                                                                                                                                                   | 5000                 | 0.0      | SLP 72486 1040             | 5   |                                                                                           |  |
| 7.0                                    | TD: 6.0' BGS<br>11-26-02<br>1025                                                                                                                  |                      |          |                            |     | Background:<br>NAT: 4300<br>PID: 0.0<br>Backfilled boring w/ 3.0 bags of bentonite chips. |  |
|                                        |                                                                                                                                                   |                      |          |                            |     |                                                                                           |  |
|                                        |                                                                                                                                                   |                      |          |                            |     |                                                                                           |  |
|                                        |                                                                                                                                                   |                      |          |                            |     |                                                                                           |  |

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                       |  |                                     |  | DISTRICT <u>St. Louis</u>                                               |  | HOLE NUMBER <u>SLD 72504qc</u>                 |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------|--|-------------------------------------------------------------------------|--|------------------------------------------------|--|
| 1. COMPANY NAME <u>Shaw E &amp; I</u>                                                                                                                                                                                                                                                                                                   |  |                                     |  | 2. DRILLING SUBCONTRACTOR <u>MES, Inc.</u>                              |  | SHEET <u>1</u> OF <u>2</u> SHEETS              |  |
| 3. PROJECT <u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                           |  |                                     |  | 4. LOCATION <u>PSC Metals North Tract V.P.</u>                          |  |                                                |  |
| 5. NAME OF DRILLER <u>Chris Anthony</u>                                                                                                                                                                                                                                                                                                 |  |                                     |  | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>Diedrich D-120</u>            |  |                                                |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>Diedrich D-120</u><br><u>using 4 1/4" HSA and</u><br><u>3" x 2" split spoon.</u>                                                                                                                                                                                               |  |                                     |  | 8. HOLE LOCATION <u>See location sketch</u>                             |  |                                                |  |
|                                                                                                                                                                                                                                                                                                                                         |  |                                     |  | 9. SURFACE ELEVATION <u>N/A</u>                                         |  |                                                |  |
| <u>PID 12-10-02 NAI</u> <u>LUD 172046</u><br><u>to 100/100 Cal. Date: 4-15-03 Bkg: 7800</u>                                                                                                                                                                                                                                             |  |                                     |  | 10. DATE STARTED <u>12-10-02</u>                                        |  | 11. DATE COMPLETED <u>12-10-02</u>             |  |
| 12. OVERBURDEN THICKNESS <u>N/A</u>                                                                                                                                                                                                                                                                                                     |  |                                     |  | 15. DEPTH GROUNDWATER ENCOUNTERED <u>N/A</u>                            |  |                                                |  |
| 13. DEPTH DRILLED INTO ROCK <u>N/A</u>                                                                                                                                                                                                                                                                                                  |  |                                     |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u> |  |                                                |  |
| 14. TOTAL DEPTH OF HOLE <u>6.0 FT BGS</u>                                                                                                                                                                                                                                                                                               |  |                                     |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u>                 |  |                                                |  |
| 18. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                |  | DISTURBED <input type="checkbox"/>  |  | UNDISTURBED <input type="checkbox"/>                                    |  | 19. TOTAL NUMBER OF CORE BOXES <u>0</u>        |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                       |  | VOC <input type="checkbox"/>        |  | METALS <input type="checkbox"/>                                         |  | OTHER (SPECIFY) <u>RAD</u>                     |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                 |  | BACKFILLED <input type="checkbox"/> |  | MONITORING WELL <input type="checkbox"/>                                |  | OTHER (SPECIFY) <u>N/A</u>                     |  |
|                                                                                                                                                                                                                                                                                                                                         |  | Yes <input type="checkbox"/>        |  | N/A <input type="checkbox"/>                                            |  | 23. SIGNATURE OF INSPECTOR <u>Gerald Allen</u> |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                |  |                                     |  | Witnessed by: <u>Gerald Allen</u> SCALE: <u>Not to Scale</u>            |  |                                                |  |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> </div> <div style="width: 45%; border: 1px solid black; padding: 5px;"> <p>Terms used to describe %</p> <p>Trace - &lt; 5 %</p> <p>Few - 5 - 10 %</p> <p>Little - 15 - 25 %</p> <p>Some - 20 - 35 %</p> <p>Mostly - 50 - 100 %</p> </div> </div> |  |                                     |  |                                                                         |  |                                                |  |
| PROJECT <u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                              |  |                                     |  |                                                                         |  | HOLE NO. <u>SLD 72504qc</u>                    |  |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                |                |             |                       |           | HOLE NUMBER                                                                               |                                  |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------|-------------|-----------------------|-----------|-------------------------------------------------------------------------------------------|----------------------------------|
| PROJECT                                |                                                                                                                | INSPECTOR      |             | SHEET                 |           | SHEET 2 OF 2                                                                              |                                  |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS (ft)                                                                                  | NO. OF SAMPLES | RECOVERY    | ANALYTICAL SAMPLE NO. | BLW COUNT | REMARKS                                                                                   |                                  |
| 0.0                                    | CL<br>silty clay w/ few med. gravel, med. stiff, med. plastic, dk. brn. to blk., dry, some cinders, some slag. | 7800           | 2.0 / 2.0   | SLD 72504             | 5         | archive sample from 3.1-3.6 BGS                                                           |                                  |
| 1.0                                    |                                                                                                                | 7800           |             | 12-10-02              | 4         |                                                                                           |                                  |
| 2.0                                    |                                                                                                                | 7800           |             | 1445                  | 5         |                                                                                           |                                  |
| 3.0                                    |                                                                                                                | 7800           | 1455        | 6                     |           |                                                                                           |                                  |
| 4.0                                    |                                                                                                                | 7800           | 1.6 / 2.0   |                       | 4         |                                                                                           |                                  |
| 5.0                                    | 6800                                                                                                           | 5              |             |                       |           |                                                                                           |                                  |
| 6.0                                    | 6800                                                                                                           | 3              |             |                       |           |                                                                                           |                                  |
| 7.0                                    | SM<br>silty fine sand, loose, poorly graded, brn. to dry, dry.                                                 | 7800           | no recovery | SLD 72504             | 4         |                                                                                           | archive sample from 4.5-5.0 BGS. |
| 8.0                                    |                                                                                                                | 8000           |             | 1410                  | 2         |                                                                                           |                                  |
| 9.0                                    |                                                                                                                | 8100           | 1.9 / 2.0   | SLD 72504             | 5         |                                                                                           |                                  |
| 10.0                                   |                                                                                                                | 7800           | 1420        | 7                     |           |                                                                                           |                                  |
| 11.0                                   |                                                                                                                | 7800           | 1420        | 9                     |           |                                                                                           |                                  |
| 12.0                                   | TD: 6.0 BGS<br>1455<br>12-10-02                                                                                |                |             |                       |           | Background:<br>NAT: 7800<br>PID: 0.0<br>Backfilled boring w/ 3.0 bags of bentonite chips. |                                  |
| 13.0                                   |                                                                                                                |                |             |                       |           |                                                                                           |                                  |
| 14.0                                   |                                                                                                                |                |             |                       |           |                                                                                           |                                  |
| 15.0                                   |                                                                                                                |                |             |                       |           |                                                                                           |                                  |
| 16.0                                   |                                                                                                                |                |             |                       |           |                                                                                           |                                  |

#

420.4

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                              |                            |                          |                            |            |                                        | HOLE NUMBER |
|----------------------------------------|----------------------------------------------------------------------------------------------|----------------------------|--------------------------|----------------------------|------------|----------------------------------------|-------------|
| PROJECT FUSRAP/SLDS                    |                                                                                              |                            | INSPECTOR Philip Statler |                            |            | SHEET 2 OF 3 SHEETS                    |             |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                                     | WELL SCREENING NUMBER (ft) | RECOVERY                 | ANALYTICAL SAMPLE NO. (ft) | SLUG COUNT | REMARKS                                |             |
| 0.0                                    | silty fine sand w/ some clay and med. gravel, poorly graded, dry, dk. brn, med. dense.       | 6500 0.0                   | 1.9/2.0                  | SLD 72527 10-9-02 1040     | 7          |                                        |             |
| 1.0                                    | some limestone gravel (med) trace limestone cobbles, trace rusty metal                       | 6800 0.0                   |                          |                            | 16         |                                        |             |
|                                        |                                                                                              | 6500 0.0                   |                          |                            | 32         |                                        |             |
| 2.0                                    | trace clay (blk)                                                                             | 6400 0.0                   |                          | SLD 72533 1055             | 12         |                                        |             |
| 3.0                                    | silty clay, med. stiff, med. plast., (lt. brn, dry, trace med. gravel, trace limst. cobbles. | 6600 0.0                   | 1.6/2.0                  |                            | 7          |                                        |             |
|                                        |                                                                                              | 6700 0.0                   |                          |                            | 10         |                                        |             |
| 4.0                                    |                                                                                              | 6306 0.0                   |                          | SLD 72539 1105             | 10         |                                        |             |
|                                        |                                                                                              | 6200 0.0                   | no recovery              |                            | 11         |                                        |             |
| 5.0                                    | trace cinders and limestone cobbles.                                                         | 6400 0.0                   | 1.7/2.0                  |                            | 5          |                                        |             |
|                                        |                                                                                              | 5900 0.0                   |                          |                            | 6          |                                        |             |
| 6.0                                    |                                                                                              | 5700 0.0                   |                          | SLD 72541 1115             | 8          |                                        |             |
|                                        |                                                                                              | 5700 0.0                   | no recovery              |                            | 8          |                                        |             |
| 7.0                                    | fine sand, loose, poorly graded, lt. brn, dry.                                               | 6100 0.0                   | 1.7/2.0                  | SLD 72542 archive          | 6          | archive sample from 6.0-6.5 BGS (1130) |             |
|                                        | piece of flake, silty clay, med. stiff, med. plast., lt. gray to tan, dry.                   | 5600 0.0                   |                          |                            | 4          | trace well-rounded gravel.             |             |
|                                        |                                                                                              | 5900 0.0                   |                          | SLD 72542 archive 1135     | 6          | archive sample from 7.2-7.4 BGS (1135) |             |
| 8.0                                    | traces of wood, flaky, dk. brn.                                                              | 5900 0.0                   | no recovery              |                            | 4          |                                        |             |
|                                        |                                                                                              | 5600 0.0                   | 0.8/2.0                  | SLD 72527 7405             | 4          | archive sample from 8.3-8.8 BGS        |             |
| 9.0                                    | traces of wood, flaky, dk. brn.                                                              | 5300 0.0                   |                          |                            | 4          |                                        |             |
| 10.0                                   |                                                                                              | N/A                        | no recovery              |                            | 21         |                                        |             |
|                                        |                                                                                              | N/A                        |                          |                            | 5          |                                        |             |
|                                        |                                                                                              | N/A                        |                          |                            |            |                                        |             |
|                                        |                                                                                              | N/A                        |                          |                            |            |                                        |             |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                         | HOLE NUMBER      |                                 |
|----------------------------------------|-----------------------------------------------------------------------------------------|------------------|---------------------------------|
| PROJECT FUSRAP/SLDS                    |                                                                                         | SLD 72527        |                                 |
| INSPECTOR Philip Statler               |                                                                                         | SHEET 3 OF 3     |                                 |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                                | WATER SAMPLE NO. | SLURRY SAMPLE NO.               |
| 11.0                                   | SM<br>silty fine sand, loose, poorly graded, H. gray, moist, traces of blk. flaky wood. | 6400<br>0.0      | RECOVERY                        |
|                                        |                                                                                         | 5800<br>0.0      | 2.0 / 2.0                       |
|                                        |                                                                                         | 6400<br>0.0      | 2                               |
|                                        |                                                                                         | 6300<br>0.0      | weight of hammer                |
| 12.0                                   | pieces of brn. wood, industrial wood (plywood)                                          | 5300<br>0.0      | SLD 72527 archive 1425          |
|                                        |                                                                                         | 5700<br>0.0      | 4                               |
|                                        | pieces of black flaky wood                                                              | 5900<br>0.0      | 10/17/02 SLD 72527 archive 1435 |
| 13.0                                   |                                                                                         | 6300<br>0.0      | 3                               |
|                                        |                                                                                         | 6100<br>0.0      | 4                               |
|                                        |                                                                                         | 6300<br>0.0      | 8                               |
| 14.0                                   |                                                                                         | 6300<br>0.0      | 6                               |
|                                        |                                                                                         | 6100<br>0.0      | 3                               |
|                                        |                                                                                         | 6300<br>0.0      | 6                               |
| 15.0                                   |                                                                                         | 6300<br>0.0      | 6                               |
|                                        | pieces of round, north, blk. wood.                                                      | 6500<br>0.0      | SLD 72527 archive 1440          |
| 16.0                                   |                                                                                         | 6700<br>0.0      | 7                               |
|                                        |                                                                                         | 5800<br>0.0      | 3                               |
|                                        | pieces of flaky brn. wood (appears industrial)                                          | 5900<br>0.0      | SLD 72527 archive 1500          |
| 17.0                                   |                                                                                         | 6000<br>0.0      | 7                               |
|                                        |                                                                                         | 5600<br>0.0      | 8                               |
| 18.0                                   | pieces of flaky, brn. wood, weathered.                                                  | 5800<br>0.0      | 3                               |
|                                        |                                                                                         | 5900<br>0.0      | 7                               |
| 19.0                                   | trace roots (fln)                                                                       | 5600<br>0.0      | 8                               |
|                                        |                                                                                         | 5800<br>0.0      | 3                               |
|                                        |                                                                                         | 5900<br>0.0      | 3                               |
|                                        |                                                                                         | 5600<br>0.0      | 4                               |
|                                        |                                                                                         | 5800<br>0.0      | 6                               |
|                                        |                                                                                         | 5900<br>0.0      | 6                               |

archive sample from 11.5-12.0 BGS.

archive sample from 12.4-12.9 BGS

archive sample from 15.3-15.8 BGS appears to be very old driftwood

archive sample from 16.5-17.0 BGS

archive sample from 18.5-19.0 BGS TD: 20.0 BGS 10-9-02 1515 Backfilled boring w/ or w/o length 9' out. capped/sail in - side encountered swampy odor



# -TRW DRILLING LOG

St. Louis

SLD 72529 QC

|                                                                                                                        |  |                                                                     |  |                                     |  |
|------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------|--|-------------------------------------|--|
| 1. COMPANY NAME<br>Shaw F & I                                                                                          |  | 2. DRILLING CONTRACTOR<br>MES, Inc.                                 |  | 3. SHEET<br>1 of 2                  |  |
| 4. PROJECT<br>FUSRAP / SLOS                                                                                            |  | 5. LOCATION<br>PSC Metals North Tract V.P.                          |  |                                     |  |
| 6. NAME OF DRILLER<br>Chris Anthony                                                                                    |  | 7. MANUFACTURE / DESIGNATION OF DRILL<br>Diedrich D-120             |  |                                     |  |
| 8. TYPES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using 4 1/4" HSA and<br>3" x 2" split spoon |  | 9. HOLE LOCATION<br>See location sketch                             |  |                                     |  |
| 10. DATE STARTED<br>10-30-02                                                                                           |  | 11. DATE COMPLETED<br>10-30-02                                      |  |                                     |  |
| 12. DEPTH DRILLED INTO ROCK<br>N/A                                                                                     |  | 13. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A |  |                                     |  |
| 14. TOTAL DEPTH OF HOLE<br>6.0 FT BGS                                                                                  |  | 15. OTHER WATER LEVEL MEASUREMENTS, (SPECIFY)<br>N/A                |  |                                     |  |
| 16. DISTURBED<br>0                                                                                                     |  | 17. UNDISTURBED<br>0                                                |  | 18. TOTAL NUMBER OF CORE BOXES<br>0 |  |
| 19. SAMPLES FOR CHEMICAL ANALYSIS<br>0                                                                                 |  | 20. METALS<br>0                                                     |  | 21. OTHER SPECIES<br>RAD            |  |
| 22. DEPOSITION OF HOLE<br>Yes                                                                                          |  | 23. MONITORING VEL.<br>N/A                                          |  | 24. OTHER SPECIES<br>N/A            |  |

LOCATION SKETCH/COMMENTS  
North.

Witnessed By: Robin Parks

SCALE: Not to Scale

Terms used to describe %

Trace - < 5%  
Few - 5-10%  
Little - 15-25%  
Some - 20-35%  
Mostly - 50-100%

R.R. Tracks

Bldg.

SLD 72531

SLD 72529 QC

SLD 72530 moved  
borling 16.5 to  
South East 1/2 due to  
inaccessibility

FUSRAP / SLOS

SLD 72529 QC

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                              |                              |             |                                            |            | HOLE NUMBER<br>SLD 72529 QC |                                                                                                                   |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------|------------------------------|-------------|--------------------------------------------|------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------|
| PROJECT<br>FUSRAP/SLDS                 |                                                                                                              | INSPECTOR<br>Phillip Statter |             | SHEET<br>2 OF 2                            |            |                             |                                                                                                                   |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS                                                                                     | WIRE LOG<br>TIME<br>P.D.     | RECOVERY    | SLD<br>72529<br>-1, -2<br>10-30-02<br>1130 | SLOW COUNT | REMARKS                     |                                                                                                                   |
| 0.0                                    | Silty clay w/ few med. gravel, stiff to very stiff, med. plast., dk. brn., dry, few brick frags, trace slag. | 5400 0.0                     | 2.0 / 2.0   | SLD 72535 1155                             | 16         |                             |                                                                                                                   |
| 1.0                                    |                                                                                                              | 5600 0.0                     |             |                                            | 14         |                             |                                                                                                                   |
| 2.0                                    |                                                                                                              | 5500 0.0                     |             |                                            | 16         |                             |                                                                                                                   |
| 3.0                                    | large piece of slag                                                                                          | 5400 0.0                     | 1.9 / 2.0   | SLD 72540 1150                             | 22         |                             |                                                                                                                   |
| 4.0                                    | some limestone cobbles                                                                                       | 5600 0.0                     |             |                                            | 17         |                             |                                                                                                                   |
| 5.0                                    | few well-rounded sand                                                                                        | 5400 0.0                     |             |                                            | 13         |                             |                                                                                                                   |
| 6.0                                    | few large brick frags, some well-rounded sand.                                                               | 4900 0.0                     |             |                                            | 12         |                             |                                                                                                                   |
| 7.0                                    |                                                                                                              | 5000 0.0                     |             |                                            | 10         |                             |                                                                                                                   |
| 8.0                                    |                                                                                                              | 5500 0.0                     | 1.8 / 2.0   |                                            | 7          |                             |                                                                                                                   |
| 9.0                                    |                                                                                                              | 5400 0.0                     |             |                                            | 9          |                             |                                                                                                                   |
| 10.0                                   | few limestone cobbles                                                                                        | 5400 0.0                     |             | SLD 72542 1200                             | 12         |                             |                                                                                                                   |
| 11.0                                   |                                                                                                              | 5500 0.0                     | no recovery |                                            | 8          |                             |                                                                                                                   |
| 12.0                                   | TD: 6.0' BG5<br>1145<br>10-30-02                                                                             |                              |             |                                            |            |                             | Background:<br>NaI: 5,400<br>PID: 0.0<br>Back-filled boring w/ 20 bags of bentonite chips. Capped boring w/ soil. |



| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                | WELL NUMBER                                                                                                |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| PROJECT EUSRAP/SLDS                    |                                                                                                                | SLD 72530                                                                                                  |
| OPERATOR Phillip Statler               |                                                                                                                | SHEET 2 OF 2                                                                                               |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                                                       | REMARKS                                                                                                    |
| 1.0                                    | Silty fine sand w/ few med. gravel, med. coarse, possibly graded, dry, few cinders and slag, trace rust frags. | 3400 0.0<br>3300 0.0<br>3100 0.0<br>N/A<br>N/A                                                             |
| 2.0                                    |                                                                                                                | RECOVERY 1.6/2.0<br>SLD 72530 11-29-02 1636<br>PC<br>SLD 72530 1635                                        |
| 3.0                                    | See SLD 72530                                                                                                  | 10<br>12<br>14<br>11                                                                                       |
| 4.0                                    |                                                                                                                | 5 Poor recovery between 2.0-4.0' BGS. (1.0/2.0 recovery)                                                   |
| 5.0                                    |                                                                                                                | 5                                                                                                          |
| 6.0                                    |                                                                                                                | 10                                                                                                         |
| 7.0                                    |                                                                                                                | 12                                                                                                         |
| 8.0                                    | Silty clay w/ trace coarse gravel, stiff, red, plastic, ft. brn, dry                                           | 3800 0.0<br>4200 0.0<br>4600 0.0<br>3900 0.0                                                               |
| 9.0                                    | Some cinders, some slag, few coal frags.                                                                       | 2.0/2.0<br>SLD 72530 archive 1645                                                                          |
| 10.0                                   |                                                                                                                | 13<br>11<br>10<br>14                                                                                       |
| 11.0                                   | TD: 6.0' BGS<br>15 ps. 1640<br>10-29-02                                                                        | archive sample from 4.5-5.0' BGS                                                                           |
| 12.0                                   |                                                                                                                | Background:<br>NFI: 3600<br>PSID: 0.0<br>Backfilled boring w/ 3.0 bags of bentonite chips, capped w/ soil. |
| 13.0                                   |                                                                                                                |                                                                                                            |
| 14.0                                   |                                                                                                                |                                                                                                            |
| 15.0                                   |                                                                                                                |                                                                                                            |
| 16.0                                   |                                                                                                                |                                                                                                            |
| 17.0                                   |                                                                                                                |                                                                                                            |
| 18.0                                   |                                                                                                                |                                                                                                            |
| 19.0                                   |                                                                                                                |                                                                                                            |
| 20.0                                   |                                                                                                                |                                                                                                            |

# TRW DRILLING LOG

St. Louis

SLD 72530B

|                                                                                                                          |  |                                                                     |  |                                     |  |
|--------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------|--|-------------------------------------|--|
| 1. COMPANY NAME<br>Shaw F & I                                                                                            |  | 2. DRILLING CONTRACTOR<br>MES, Inc.                                 |  | 3. SHEET<br>1 of 2                  |  |
| 4. PROJECT<br>FUSRAP / SLDs                                                                                              |  | 5. LOCATION<br>PSC Metals North Tract V.P.                          |  |                                     |  |
| 6. NAME OF DRILLER<br>Chris Anthony                                                                                      |  | 7. MANUFACTURE DESIGNATION OF DRILL<br>Diedrich D-120               |  |                                     |  |
| 8. TYPES AND TYPES OF DRILLING AND CAMPILING EQUIPMENT<br>Diedrich D-120<br>using 4 1/4" I.D. and<br>3" x 2" split spoon |  | 9. HOLE LOCATION<br>See location sketch                             |  |                                     |  |
| 10. DATE STARTED<br>10-30-02                                                                                             |  | 11. DATE COMPLETED<br>10-30-02                                      |  |                                     |  |
| 12. DEPTH DRILLED INTO SOIL<br>N/A                                                                                       |  | 13. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A |  |                                     |  |
| 14. TOTAL DEPTH OF HOLE<br>4.0 FT BGS                                                                                    |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                 |  |                                     |  |
| 16. TESTED/RETESTED SAMPLE<br>0                                                                                          |  | 17. TESTED/RETESTED<br>0                                            |  | 18. TOTAL NUMBER OF CORE BOXES<br>0 |  |
| 19. SAMPLES FOR CHEMICAL ANALYSIS<br>0                                                                                   |  | 20. METAL<br>0                                                      |  | 21. OTHER SPECIMEN<br>RAD           |  |
| 22. REPRODUCTION OF LOG<br>0                                                                                             |  | 23. MONITORING RE.<br>N/A                                           |  | 24. OTHER SPECIMEN<br>NA            |  |

LOCATION SKETCH/COMMENTS  
North

Witnessed By: Robin Parks  
*Robin Parks*

SCALE: Not to Scale  
Terms used to describe %  
Trace - < 5%  
Few - 5-10%  
Little - 15-25%  
Some - 20-35%  
Mostly - 50-100%

Building

SLD  
72531

SLD

72530B

Moved 5.5' S from  
SLD 72530

FUSRAP / SLDs

SLD 72530B

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                           |                              |                 |                        |                    | HOLE NUMBER<br>SLD 72530B                                                                                                          |  |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------|------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------|--|
| PROJECT<br>FUSRAP/SLDS                 |                                                                                                                           | INSPECTOR<br>Phillip Statler |                 |                        |                    | SHEET<br>2 OF 2                                                                                                                    |  |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS                                                                                                  | WATER<br>LEVEL<br>(ft)       | RECOVERY<br>(%) | WATER<br>TEMP.<br>(°F) | BLOW COUNT<br>(ft) | REMARKS                                                                                                                            |  |
| 1.0                                    | SEE<br>SLD<br>72530<br>for<br>description                                                                                 | N/A                          |                 |                        | N/A                | Augered<br>down to<br>2.0' BGS<br>and drove<br>spoons.                                                                             |  |
| 2.0                                    |                                                                                                                           | N/A                          |                 |                        | N/A                |                                                                                                                                    |  |
| 3.0                                    |                                                                                                                           | N/A                          |                 |                        | N/A                |                                                                                                                                    |  |
| 4.0                                    |                                                                                                                           | N/A                          |                 |                        | N/A                |                                                                                                                                    |  |
| 2.0                                    | silty clay, med. stiff<br>to stiff, med. plast,<br>dk. brn, dry, few<br>med. gravel, few fine<br>sand.<br>few coal frags. | 5300<br>0.0                  | 2.0/<br>2.0     |                        | 5                  |                                                                                                                                    |  |
| 3.0                                    | brick frags.                                                                                                              | 5400<br>0.0                  |                 |                        | 6                  |                                                                                                                                    |  |
| 4.0                                    |                                                                                                                           | 5700<br>0.0                  |                 |                        | 9                  | archive<br>sample<br>from<br>3.0-3.5' BGS                                                                                          |  |
| 5.0                                    |                                                                                                                           | 5400<br>0.0                  |                 |                        | 9                  |                                                                                                                                    |  |
| 6.0                                    |                                                                                                                           |                              |                 |                        |                    |                                                                                                                                    |  |
| 7.0                                    |                                                                                                                           |                              |                 |                        |                    |                                                                                                                                    |  |
| 8.0                                    |                                                                                                                           |                              |                 |                        |                    |                                                                                                                                    |  |
| 9.0                                    |                                                                                                                           |                              |                 |                        |                    |                                                                                                                                    |  |
| 10.0                                   |                                                                                                                           |                              |                 |                        |                    |                                                                                                                                    |  |
| TP: 4.0' BGS<br>10-30-02<br>1180       |                                                                                                                           |                              |                 |                        |                    | Background:<br>NFI: 5400<br>PID: 0.0<br>Back-filled<br>boring w/<br>2.0 bags of<br>bentonite<br>chips. Cased<br>boring w/<br>soil. |  |

|                                                                                                                                                                                      |  |                                                                                                                 |  |                                  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------|--|----------------------------------|--|
| <b>STRW DRILLING LOG</b>                                                                                                                                                             |  | City: <b>St. Louis</b>                                                                                          |  | Hole Number: <b>SLD 72531</b>    |  |
| Company Name: <b>Shaw F &amp; I</b>                                                                                                                                                  |  | Drilling Contractor: <b>MES, Inc.</b>                                                                           |  | Sheet: <b>1</b> of <b>2</b>      |  |
| Project: <b>FUSRAP / SLDs</b>                                                                                                                                                        |  | Location: <b>PSC Metals North Tract V.P.</b>                                                                    |  |                                  |  |
| Name of Driller: <b>Chris Anthony</b>                                                                                                                                                |  | Manufacturer / Designation of Drill: <b>Diedrich D-120</b>                                                      |  |                                  |  |
| Size and Type of Drilling and Sampling Equipment: <b>Diedrich D-120</b>                                                                                                              |  | Hole Location: <b>See location sketch</b>                                                                       |  |                                  |  |
| <b>using 3 1/4" HSA and 3" x 2" split spoon</b>                                                                                                                                      |  | Surface Elevation: <b>N/A</b>                                                                                   |  |                                  |  |
| PID <b>11-6-02</b> AI ~ LUD <b>172040</b><br>Cal Date <b>BKG = 5500</b>                                                                                                              |  | Date Started: <b>11-6-02</b>                                                                                    |  | Date Completed: <b>11-6-02</b>   |  |
| Overburden Thickness: <b>N/A</b>                                                                                                                                                     |  | Depth Groundwater Encountered: <b>N/A</b>                                                                       |  |                                  |  |
| Depth Drilled into Rock: <b>N/A</b>                                                                                                                                                  |  | Depth to Water and Elapsed Time After Drilling Completed: <b>N/A</b>                                            |  |                                  |  |
| Total Depth of Hole: <b>6.0 FT BGS</b>                                                                                                                                               |  | Other Water Level Measurements (Specify): <b>N/A</b>                                                            |  |                                  |  |
| Geotechnical Samples: <input checked="" type="checkbox"/> Disturbed <input checked="" type="checkbox"/> Undisturbed                                                                  |  | Total Number of Core Boxes: <b>0</b>                                                                            |  |                                  |  |
| Samples for Chemical Analysis: <input checked="" type="checkbox"/> Metals <input checked="" type="checkbox"/> Other (Specify): <b>RAD</b>                                            |  | Other (Specify): <b>0</b>                                                                                       |  | Total Core Recovered: <b>0 %</b> |  |
| Depth of Core: <input checked="" type="checkbox"/> Sampled <input checked="" type="checkbox"/> Monitoring Well <input checked="" type="checkbox"/> Other (Specify): <b>N/A</b>       |  | Signature of Inspector: <i>[Signature]</i>                                                                      |  |                                  |  |
| Location Sketch/Comments: <b>North</b>                                                                                                                                               |  | Witnessed By: <b>Susan Adams</b> SCALE: Not to Scale                                                            |  |                                  |  |
| <div style="border: 1px solid black; padding: 10px; width: 200px; height: 100px; display: flex; align-items: center; justify-content: center; margin: 10px;"> <b>Building</b> </div> |  | Terms used to describe %<br>Trace - < 5%<br>Few - 5-10%<br>Little - 15-25%<br>Some - 20-35%<br>Mostly - 50-100% |  |                                  |  |
|                                                                                                                                                                                      |  |                                                                                                                 |  |                                  |  |
| FUSRAP / SLDs                                                                                                                                                                        |  | Hole No: <b>SLD 72531</b>                                                                                       |  |                                  |  |

# ITRW DRILLING LOG (CONTINUATION SHEET)

| PROJECT      |              | INSPECTOR                                                                                                                                                  |                                  | HOLE NUMBER                                   |                                            | SHEET                     |                                                                                                                                |
|--------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------|--------------------------------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| FUSRAP/SLDS  |              | Phillip Statler                                                                                                                                            |                                  | SLD 72531                                     |                                            | 2 of 2                    |                                                                                                                                |
| ELEV.<br>(1) | DEPTH<br>(2) | DESCRIPTION OF MATERIALS<br>(3)                                                                                                                            | FIELD SOLE/PLR<br>RESULTS<br>(4) | DETERMINED SAMPLE<br>ONE OR TWO 2 OR 3<br>(5) | ANALYTICAL<br>SAMPLE NO.<br>(6)            | BLOWING CORRECTION<br>(7) | REMARKS<br>(8)                                                                                                                 |
| cover        |              | Concrete<br>Cover                                                                                                                                          |                                  |                                               | SLD<br>72531<br>cover<br>11-6-02<br>(1425) |                           |                                                                                                                                |
| SM           | 1            | Silty fine sand w/ some med. to coarse gravel, med. dense to dense, poorly graded, dk. brn. to blk., moist, trace metal shavings, few brick frags, few ls. | 5300<br>0.0                      | 1.8/<br>2.0                                   | SLD<br>72531<br>1450                       | 9                         | archive<br>sample from<br>3.3-3.8 / BGS                                                                                        |
|              | 2            |                                                                                                                                                            | 5200<br>0.0                      |                                               |                                            | 32                        |                                                                                                                                |
|              |              |                                                                                                                                                            | 5900<br>0.0                      |                                               | SLD<br>72531<br>1455                       | 46                        |                                                                                                                                |
|              |              |                                                                                                                                                            | 5000<br>0.0                      |                                               | no recovery                                | 19                        |                                                                                                                                |
| CL           | 3            | Silty clay, med. stiff, med. plast., lt. brn., moist.                                                                                                      | 5500<br>0.0                      | 1.3/<br>2.0                                   |                                            | 4                         |                                                                                                                                |
|              |              |                                                                                                                                                            | 5500<br>0.0                      |                                               |                                            | 5                         |                                                                                                                                |
| SM           | 4            | Silty fine sand w/ some med. gravel, loose, poorly graded, dk. brn., moist, few cinders and slag, few brick frags, 1 piece of red slag.                    | 5600<br>0.0                      | no recovery                                   | SLD<br>72531<br>archive<br>1500            | 6                         | archive sam-<br>ple from<br>5.7-6.2 / BGS.                                                                                     |
|              |              |                                                                                                                                                            | N/A                              |                                               |                                            | 6                         |                                                                                                                                |
|              | 5            |                                                                                                                                                            | 5400<br>0.0                      |                                               |                                            | 2                         |                                                                                                                                |
|              |              |                                                                                                                                                            | 5300<br>0.0                      |                                               |                                            | 3                         |                                                                                                                                |
|              |              |                                                                                                                                                            | 5900<br>0.0                      |                                               |                                            | 2                         |                                                                                                                                |
|              | 6            |                                                                                                                                                            | N/A                              |                                               | SLD<br>72531<br>archive<br>1510            | 2                         |                                                                                                                                |
|              |              |                                                                                                                                                            | N/A                              | no recovery                                   |                                            |                           |                                                                                                                                |
|              |              | TD: 6.5 / BGS<br>11-6-02<br>1450                                                                                                                           |                                  |                                               |                                            |                           | Background:<br>NaI: 5,500<br>PID: 0.0<br>Backfilled<br>boring w/<br>3.0 bags of<br>bestonite<br>chips. Capped<br>w/ Quickrete. |

FUSRAP/SLDS



| HTRW DRILLING LOG                                                                                                      |  |                                                                                                                                        |  | St. Louis                             |  | SLD 72532                           |  |
|------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------|--|-------------------------------------|--|
| 1. COMPANY NAME<br>Shaw E & I                                                                                          |  | 2. DRILLING CONTRACTOR<br>MES, Inc.                                                                                                    |  | 3. SHEET NUMBER<br>1 of 2             |  |                                     |  |
| 4. PROJECT<br>FUSRAP / SLDs                                                                                            |  | 5. LOCATION<br>PSC Metals North Tract V.P.                                                                                             |  |                                       |  |                                     |  |
| 6. NAME OF WELL<br>Chris Anthony                                                                                       |  | 7. MANUFACTURER, DESIGNATION OF DRILL<br>Diedrich D-120                                                                                |  |                                       |  |                                     |  |
| 8. TYPES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using 4 1/4" HSA and<br>3" x 2" split spoon |  | 9. HOLE LOCATION<br>see location sketch                                                                                                |  |                                       |  |                                     |  |
|                                                                                                                        |  | 10. SURFACE ELEVATION<br>N/A                                                                                                           |  |                                       |  |                                     |  |
| 11. PEO 11-21-02 NAI                                                                                                   |  | 12. LUD 172040                                                                                                                         |  | 13. DATE STARTED<br>11-21-02          |  | 14. DATE COMPLETED<br>11-21-02      |  |
| 15. TO 100 / 100 Cal Date                                                                                              |  | 16. BK9 = 5,100                                                                                                                        |  | 17. DEPTH TO WATER ENCOUNTERED<br>N/A |  |                                     |  |
| 18. DEPTH TO WATER ENCOUNTERED<br>N/A                                                                                  |  | 19. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETION<br>N/A                                                                   |  |                                       |  |                                     |  |
| 20. TOTAL DEPTH OF HOLE<br>6.0 FT BGS                                                                                  |  | 21. OTHER WATER LEVEL MEASUREMENTS SPECIFY<br>N/A                                                                                      |  |                                       |  |                                     |  |
| 22. TEST TECHNIQUE SAMPLE<br>Ø                                                                                         |  | 23. TEST RESULT<br>Ø                                                                                                                   |  | 24. ANALYSIS<br>Ø                     |  | 25. TOTAL NUMBER OF CORE BOXES<br>Ø |  |
| 26. SAMPLE FOR CHEMICAL ANALYSIS<br>Ø                                                                                  |  | 27. TYPE<br>Ø                                                                                                                          |  | 28. ANALYSIS<br>Ø                     |  | 29. OTHER SPECIFY<br>Ø              |  |
| 30. DEPTH OF CORE<br>Ø                                                                                                 |  | 31. SAMPLED<br>Yes                                                                                                                     |  | 32. MONITORING<br>N/A                 |  | 33. OTHER SPECIFY<br>N/A            |  |
| 34. LOCATION SKETCH / COMMENTS<br>North                                                                                |  | 35. WITNESSED BY: Susan Adams                                                                                                          |  |                                       |  |                                     |  |
|                                                                                                                        |  | SCALE: NOT TO SCALE<br>Terms used to describe %<br>Trace - < 5%<br>Few - 5-10%<br>Little - 15-25%<br>Some - 20-35%<br>Mostly - 50-100% |  |                                       |  |                                     |  |
|                                                                                                                        |  |                                                                                                                                        |  |                                       |  |                                     |  |
| FUSRAP / SLDs                                                                                                          |  | SLD 72532                                                                                                                              |  |                                       |  |                                     |  |

EM 1110-1-4000  
1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                      |                            |             | SLED 72532      |              |
|----------------------------------------|--------------------------------------------------------------------------------------|----------------------------|-------------|-----------------|--------------|
| PROJECT: FUSRAP/SLDS                   |                                                                                      | INSPECTOR: Phillip Statler |             | SHEET 2 OF 2    |              |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                             | WATER SAMPLE NO.           | RECOVERY    | SLP             | REMARKS      |
| 1.0                                    | Silty fine sand w/ some med to coarse gravel, very dense, poorly graded, dk brn, dry | 5100 0.0                   | 2.0         | SLP 72532 17425 | 58 ps        |
|                                        |                                                                                      | 5100 0.0                   | 2.0         |                 | 85 ps        |
|                                        |                                                                                      | 4900 0.0                   | 2.0         |                 | 69 ps        |
| 2.0                                    | few metal frags, few broken glass.                                                   | 5000 0.0                   |             | SLP 72532 17420 | 85 ps        |
|                                        |                                                                                      | 5100 0.0                   | 1.7/2.0     |                 | 43 ps        |
|                                        |                                                                                      | 5400 0.0                   | 1.7/2.0     |                 | 38 ps        |
| 3.0                                    | few brick frags, few cinders and slag                                                | 5800 0.0                   |             | SLP 72532 17425 | 13 ps        |
|                                        |                                                                                      | N/A                        | no recovery |                 | 7 ps         |
| 4.0                                    | few silty clay, few med. to coarse gravel.                                           | 5100 0.0                   | 1.4/6.0     |                 | 6 ps         |
|                                        |                                                                                      | 5500 0.0                   | 1.4/6.0     |                 | 6 ps         |
| 5.0                                    |                                                                                      | 5400 0.0                   | 1.4/6.0     | SLP 72532 17435 | 7 ps         |
|                                        |                                                                                      | N/A                        | no recovery |                 | 6 ps         |
| 6.0                                    |                                                                                      | N/A                        | no recovery |                 | 6 ps         |
| 7.0                                    | TD: 6.0' BGS<br>11-21-02<br>17420                                                    |                            |             |                 | Background   |
|                                        |                                                                                      |                            |             |                 | Nat: 5,100   |
|                                        |                                                                                      |                            |             |                 | PID: 0.0     |
|                                        |                                                                                      |                            |             |                 | Back filled  |
|                                        |                                                                                      |                            |             |                 | boring w/    |
|                                        |                                                                                      |                            |             |                 | 3.0 bags     |
|                                        |                                                                                      |                            |             |                 | of bentonite |
|                                        |                                                                                      |                            |             |                 | chips.       |

72528

| TRW DRILLING LOG                                                                               |  | ST. LOUIS                                                                                                        |  | HOLE NUMBER                |  |
|------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------|--|----------------------------|--|
| COMPANY NAME<br>Shaw F & I                                                                     |  | DRILLING CONTRACTOR<br>MES, Inc.                                                                                 |  | HOLE NUMBER<br>SLD 72534   |  |
| PROJECT<br>FUSRAP / SLDs                                                                       |  | LOCATION<br>PSC Metals North Tract V.P.                                                                          |  | SHEET<br>1 of 2            |  |
| NAME OF DRILLER<br>Chris Anthony                                                               |  | MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120                                                            |  |                            |  |
| SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>using 4 1/4" HSA and 3" x 2" split spoon |  | HOLE LOCATION<br>see location sketch                                                                             |  |                            |  |
|                                                                                                |  | SURFACE ELEVATION<br>N/A                                                                                         |  |                            |  |
| PED 10-30-02 N/A LUD 172040<br>to 100/100 Cal Date 4-1-03 BK9 = 5400                           |  | DATE STARTED<br>10-30-02                                                                                         |  | DATE COMPLETED<br>10-30-02 |  |
| OVERSPOUT THICKNESS<br>N/A                                                                     |  | DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A                                                  |  |                            |  |
| DEPTH DRILLED INTO ROCK<br>N/A                                                                 |  | OTHER WATER LEVEL MEASUREMENTS, SPECIFY<br>N/A                                                                   |  |                            |  |
| TOTAL DEPTH OF HOLE<br>6.0 FT BGS                                                              |  | TOTAL NUMBER OF CORE LOGS<br>0                                                                                   |  |                            |  |
| GEOTECHNICAL SAMPLES<br>0                                                                      |  | OTHER SPECIFY<br>RAD                                                                                             |  |                            |  |
| SAMPLES FOR CHEMICAL ANALYSIS<br>0                                                             |  | OTHER SPECIFY<br>0                                                                                               |  |                            |  |
| DEPOSITION OF CORE<br>0                                                                        |  | OTHER SPECIFY<br>N/A                                                                                             |  |                            |  |
| LOCATION SKETCH/COMMENTS<br>North                                                              |  | WITNESSED BY<br>Susan Adams                                                                                      |  | SCALE: NOT TO SCALE        |  |
|                                                                                                |  | Terms used to describe %<br>Trace - < .5%<br>Few - 5-10%<br>Little - 15-25%<br>Some - 20-35%<br>Mostly - 50-100% |  |                            |  |
|                                                                                                |  |                                                                                                                  |  |                            |  |
| FUSRAP / SLDs                                                                                  |  | SLD 72534                                                                                                        |  |                            |  |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                    |                             |             |                               |              | HOLE NUMBER<br>SLD 72534                                                                                  |  |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------|-------------------------------|--------------|-----------------------------------------------------------------------------------------------------------|--|
| PROJECT<br>FUSRAP/SLDS                 |                                                                                                                    | INSPECTOR<br>Philip Statler |             | SHEET<br>2 OF 2               |              | SHEET<br>2                                                                                                |  |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS                                                                                           | WATER<br>LEVEL<br>(ft)      | RECOVERY    | SLD<br>NUMBER                 | SLD<br>COUNT | REMARKS                                                                                                   |  |
| 1.0                                    | silty clay w/ trace med. gravel, med. silt, med. plast. dk. brn., dry, some cinders, some slag, trace brick frags. | 5400                        | 1.9/<br>2.0 | SLD 72534<br>10-30-02<br>1330 | 5            |                                                                                                           |  |
|                                        |                                                                                                                    | 5100                        |             |                               | 7            |                                                                                                           |  |
|                                        |                                                                                                                    | 5500                        |             |                               | 6            |                                                                                                           |  |
|                                        |                                                                                                                    | 5000                        |             |                               | 6            |                                                                                                           |  |
| 2.0                                    | See SLD 72534B for information                                                                                     |                             | no recovery |                               | 2            | Poor recovery from 2.0-4.0' BGS                                                                           |  |
| 3.0                                    |                                                                                                                    |                             |             | 5                             |              |                                                                                                           |  |
|                                        |                                                                                                                    |                             |             | 5                             |              |                                                                                                           |  |
|                                        |                                                                                                                    |                             |             | 4                             |              |                                                                                                           |  |
| 4.0                                    | absence of cinders, slag, and bricks.<br>few weathered wood frags.                                                 | 5500                        | 1.8/<br>2.0 | SLD 72534<br>10-30-02<br>1335 | 4            | archive sample from 4.5-5.0' BGS                                                                          |  |
| 5.0                                    |                                                                                                                    | 5400                        |             |                               | 5            |                                                                                                           |  |
|                                        |                                                                                                                    | 5200                        |             |                               | 4            |                                                                                                           |  |
|                                        |                                                                                                                    | 5100                        |             |                               | 5            |                                                                                                           |  |
| 6.0                                    | TD: 6.0' BGS<br>10-30-02<br>1340                                                                                   |                             | no recovery |                               |              | Background:<br>NAI: 5400<br>PID: 0.0<br>Backfilled boring w/ 3.0 bags of bentonite chips. Capped w/ soil. |  |
| 7.0                                    |                                                                                                                    |                             |             |                               |              |                                                                                                           |  |
| 8.0                                    |                                                                                                                    |                             |             |                               |              |                                                                                                           |  |
| 9.0                                    |                                                                                                                    |                             |             |                               |              |                                                                                                           |  |
| 10.0                                   |                                                                                                                    |                             |             |                               |              |                                                                                                           |  |

# TRW DRILLING LOG

DATE

St. Louis

HOLE NUMBER

SLD 72534B

1. COMPANY NAME

Shaw F & I

2. DRILLING SUBCONTRACTOR

MES, Inc.

SHEET

1

SHEETS

2

3. PROJECT

FUSRAP / SLDS

4. LOCATION

PSC Metals North Tract V.P.

5. NAME OF DRILLER

Chris Anthony

6. MANUFACTURER'S DESIGNATION OF DRILL

Diedrich D-120

7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT

Diedrich D-120

using 4 1/4" HSA and

3" x 2' split spoon

8. HOLE LOCATION

See location sketch

9. SURFACE ELEVATION

N/A

10. DATE STARTED

10-30-02

11. DATE COMPLETED

10-30-02

12. OVERBURDEN THICKNESS

N/A

13. DEPTH DRILLED INTO ROCK

N/A

14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED

N/A

15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)

N/A

16. TOTAL DEPTH OF HOLE

4.0

FT BGS

17. GEOTECHNICAL SAMPLES

0

18. DISTURBED

0

19. UNDISTURBED

0

20. TOTAL NUMBER OF CORE BOXES

0

21. SAMPLES FOR CHEMICAL ANALYSIS

0

22. ROCK

0

23. METALS

0

24. OTHER SPECIFY

0

25. OTHER SPECIFY

0

26. OTHER SPECIFY

0

27. TOTAL CORE RECOVERY %

0

28. DEPOSITION OF HOLE

0

29. SCAFFOLD

Yes

30. MONITORING WELL

N/A

31. OTHER SPECIFY

N/A

32. SIGNATURE OF INSPECTOR

Chris Anthony

LOCATION SKETCH/COMMENTS

North

Witnessed By: Susan Adams

SCALE: Not to Scale

Terms used to describe %

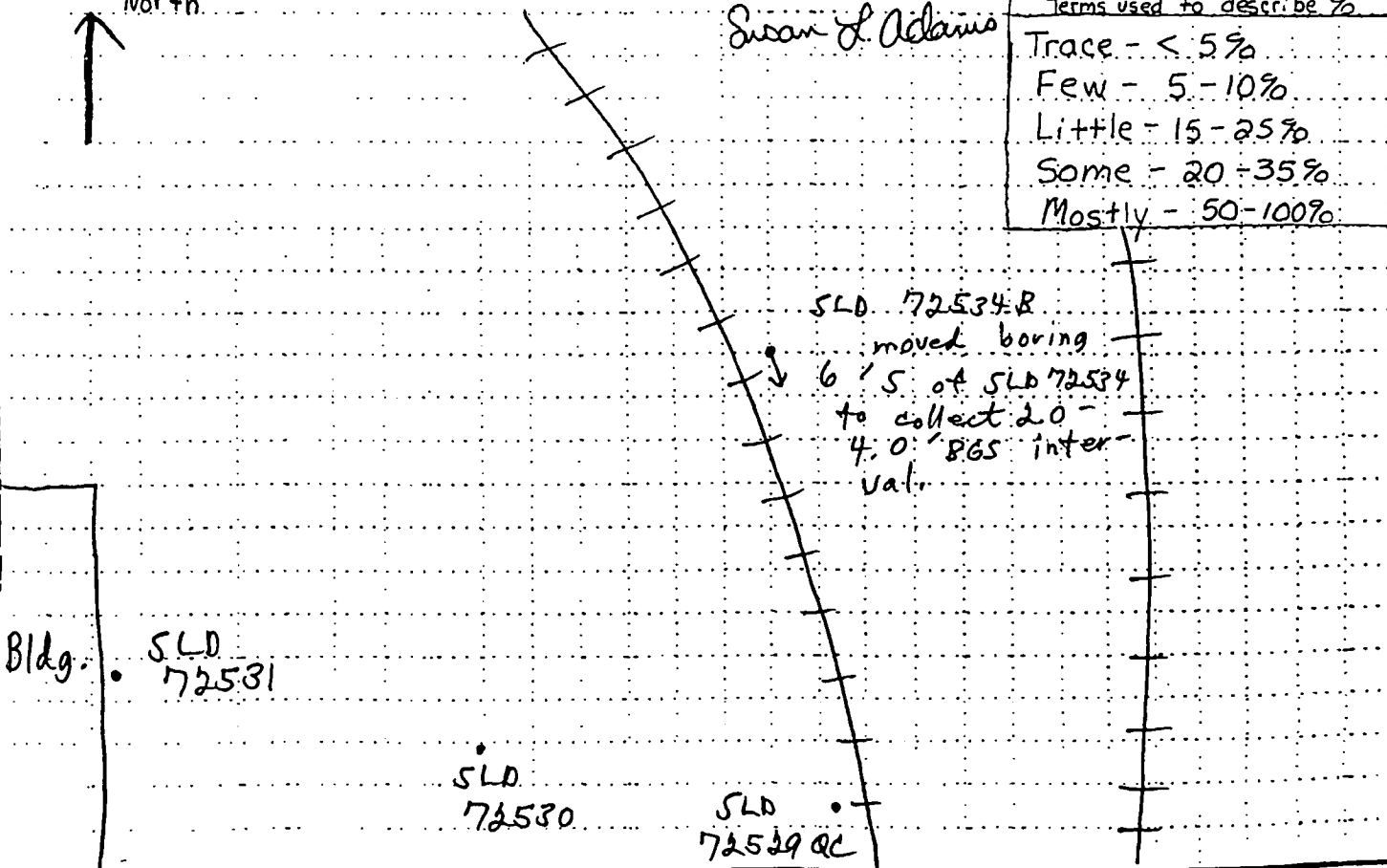
Trace - < 5%

Few - 5-10%

Little - 15-25%

Some - 20-35%

Mostly - 50-100%



Bldg. SLD 72531

SLD 72530

SLD 72529 QC

FUSRAP / SLDS

HOLE NO.

SLD 72534B

1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                       |                               |             |                         |                   | HOLE NUMBER<br>SLD 725348                                                                 |
|----------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------------------------|-------------------|-------------------------------------------------------------------------------------------|
| PROJECT<br>FUSRAP/SLDS                 |                                                                                                       | INSPECTION<br>Ph/MSp Sta 410r |             |                         | SHEET<br>2 OF 2   |                                                                                           |
| DEPTH<br>(FEET)                        | DESCRIPTION OF MATERIALS                                                                              | WATER SAMPLE NO.<br>(1)       | RECOVERY    | WATER SAMPLE NO.<br>(2) | BLOW COUNT<br>(1) | REMARKS                                                                                   |
| 1.0                                    | See SLD 72534 for information                                                                         |                               |             |                         |                   | Angered down to 2.0' BGS and drove spoons.                                                |
| 2.0                                    | Silty clay w/ clay med gravel; med silty med. plat.; M. brn; dry; trace brick frags; trace fine sand. | 5400<br>0.0                   | 1.3         | SLD 725348 archive      | 6                 | (10-30-02, 1400) archive sample taken from 2.0 - 2.5' BGS.                                |
| 3.0                                    | granite cobble stuck in tip.                                                                          | 5200<br>0.0                   | 2.0         |                         | 6                 |                                                                                           |
|                                        |                                                                                                       | N/A                           |             |                         | 12                |                                                                                           |
|                                        |                                                                                                       | N/A                           | no recovery |                         | 23                |                                                                                           |
| 4.0                                    |                                                                                                       | N/A                           |             |                         |                   |                                                                                           |
| 5.0                                    | TP: 4.0' BGS<br>10-30-02<br>1350                                                                      |                               |             |                         |                   | Background<br>NFI: 5400<br>PIB: 0.0                                                       |
| 6.0                                    |                                                                                                       |                               |             |                         |                   | Backfilled<br>boring w/<br>20 bags<br>of bentonite<br>chips. Capped<br>boring w/<br>soil. |
| 7.0                                    |                                                                                                       |                               |             |                         |                   |                                                                                           |
| 8.0                                    |                                                                                                       |                               |             |                         |                   |                                                                                           |
| 9.0                                    |                                                                                                       |                               |             |                         |                   |                                                                                           |
| 10.0                                   |                                                                                                       |                               |             |                         |                   |                                                                                           |

FUSRAP/SLDS

SLD 725348

01

| HTRW DRILLING LOG                                                                                                    |  |  |  | DISTRICT                                                                                                                                                                                                                                                                                                                                               |  | HOLE NUMBER |  |
|----------------------------------------------------------------------------------------------------------------------|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------|--|
| 1. COMPANY NAME<br>Shaw E & I                                                                                        |  |  |  | 2. DRILLING SUBCONTRACTOR<br>MES, Inc.                                                                                                                                                                                                                                                                                                                 |  | SLD 72792   |  |
| 3. PROJECT<br>FUS RAP / SLDs                                                                                         |  |  |  | 4. LOCATION<br>PSC Metals North Tract (Tract I)<br>City of Venice, IL VP P.S. (Area N)                                                                                                                                                                                                                                                                 |  |             |  |
| 5. NAME OF DRILLER<br>Chris Anthony                                                                                  |  |  |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120                                                                                                                                                                                                                                                                                               |  |             |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using 3/4" HSA and<br>3" x 2' Split Spoon |  |  |  | 8. HOLE LOCATION<br>N/A                                                                                                                                                                                                                                                                                                                                |  |             |  |
| 9. SURFACE ELEVATION<br>N/A                                                                                          |  |  |  | 10. DATE STARTED<br>10-1-02                                                                                                                                                                                                                                                                                                                            |  |             |  |
| 11. DATE COMPLETED<br>10-1-02                                                                                        |  |  |  | 12. OVERALL JORDEN THICKNESS<br>N/A                                                                                                                                                                                                                                                                                                                    |  |             |  |
| 13. DEPTH DRILLED INTO ROCK<br>N/A                                                                                   |  |  |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br>N/A                                                                                                                                                                                                                                                                                                               |  |             |  |
| 14. TOTAL DEPTH OF HOLE<br>10.0' BGS                                                                                 |  |  |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A                                                                                                                                                                                                                                                                                    |  |             |  |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                                                                  |  |  |  | 18. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                               |  |             |  |
| 19. TOTAL NUMBER OF CORE BOXES<br>0                                                                                  |  |  |  | 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                      |  |             |  |
| 21. TOTAL CORE RECOVERY<br>0%                                                                                        |  |  |  | 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                |  |             |  |
| 23. SIGNATURE OF INSPECTOR<br>Phillip N. Statten                                                                     |  |  |  | 24. LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                           |  |             |  |
| SCALE: Not to scale                                                                                                  |  |  |  | <p>North</p> <p>Bremen Ave. 13' from SW From Part w/ flag on it. gate</p> <p>SLD 72145</p> <p>SLD 72792 (moved boring "N" 94' W to area of higher rad. counts) (Former location of HTZ 66213; SLD 72792 partially used for vertical delineation)</p> <p>Area "N"</p> <p>Concrete pad</p> <p>129' from Concrete Pad</p> <p>Second Ave.</p> <p>fence</p> |  |             |  |

FUS RAP / SLDs

SLD 72792

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                 |                 |                                                                  |                      |                      | HOLE NUMBER<br>SLD 72792 |                      |
|----------------------------------------|-------------------------------------------------------------------------------------------------|-----------------|------------------------------------------------------------------|----------------------|----------------------|--------------------------|----------------------|
| PROJECT<br>FUSRAP/SLDS                 |                                                                                                 |                 | INSPECTOR<br>Phillip Statler                                     |                      |                      | SHEET<br>2 of 2          |                      |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS                                                                        | RECOVERY<br>(%) | REMARKS                                                          | SLD<br>72792<br>1100 | SLD<br>72792<br>1115 | SLD<br>72792<br>1145     | SLD<br>72792<br>1150 |
| 0.0 - 0.5                              | silty fine sand, loose, poorly graded, dk. brn, dry.                                            | 0.5/1.0         | archive taken @ (10-1-02, 1100) 0.0-0.5' BGS                     | 5                    |                      |                          |                      |
| 0.5 - 1.0                              |                                                                                                 | no recovery     | Readings from cuttings: 13-14 K                                  | 9                    |                      |                          |                      |
| 1.0 - 1.5                              |                                                                                                 |                 |                                                                  | 7                    |                      |                          |                      |
| 1.5 - 2.0                              |                                                                                                 |                 |                                                                  | 6                    |                      |                          |                      |
| 2.0 - 2.5                              | trace sand, cinders, slag and brick frags.                                                      | 0.7/2.0         | archive sample taken from 2.0-2.5' BGS                           | 4                    |                      |                          |                      |
| 2.5 - 3.0                              |                                                                                                 | no recovery     |                                                                  | 5                    |                      |                          |                      |
| 3.0 - 3.5                              |                                                                                                 |                 |                                                                  | 6                    |                      |                          |                      |
| 3.5 - 4.0                              |                                                                                                 |                 |                                                                  | 6                    |                      |                          |                      |
| 4.0 - 4.5                              |                                                                                                 |                 |                                                                  | 3                    |                      |                          |                      |
| 4.5 - 5.0                              | silty clay, cott to med. stiff, med. plast., H. brn., dry, trace well rounded limestone pebbles | 2.0/2.0         | in-situ encountered at 4.3' BGS                                  | 4                    |                      |                          |                      |
| 5.0 - 5.5                              |                                                                                                 |                 | * Boring back-filled w/2 bags of bentonite chips. Capped w/ soil | 7                    |                      |                          |                      |
| 5.5 - 6.0                              |                                                                                                 |                 |                                                                  | 9                    |                      |                          |                      |
| 6.0 - 6.5                              | trace cinders, slag                                                                             | 1.9/2.0         |                                                                  | 3                    |                      |                          |                      |
| 6.5 - 7.0                              |                                                                                                 |                 |                                                                  | 5                    |                      |                          |                      |
| 7.0 - 7.5                              | mottled, gray/brown, trace fine sand.                                                           |                 |                                                                  | 9                    |                      |                          |                      |
| 7.5 - 8.0                              |                                                                                                 | no recovery     | archive sample taken from 7.4-7.9' BGS                           | 7                    |                      |                          |                      |
| 8.0 - 8.5                              |                                                                                                 |                 |                                                                  | 4                    |                      |                          |                      |
| 8.5 - 9.0                              |                                                                                                 | 2.0/2.0         |                                                                  | 6                    |                      |                          |                      |
| 9.0 - 9.5                              | silty fine sand, loose, poorly graded, mottled gray/brown, dry, textured.                       |                 | archive sample taken from 9.0-9.5' BGS                           | 6                    |                      |                          |                      |
| 9.5 - 10.0                             |                                                                                                 |                 | TD: 10.0' BGS 10-1-02, 1315                                      | 6                    |                      |                          |                      |



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| HTRW DRILLING LOG                                                                                                                                                       |  |  | DISTRICT<br>St. Louis                                                         | HOLE NUMBER<br>SLD 72792B |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|-------------------------------------------------------------------------------|---------------------------|
| 1. COMPANY NAME<br>Shaw E & I                                                                                                                                           |  |  | 2. DRILLING SUBCONTRACTOR<br>MES, Inc.                                        |                           |
| 3. PROJECT<br>FUS RAP / SLDS                                                                                                                                            |  |  | 4. LOCATION<br>PSC Metal North Tract V.P.<br><del>City of Venice, IL VA</del> |                           |
| 5. NAME OF DRILLER<br>Chris Anthony                                                                                                                                     |  |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120                      |                           |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using 3 1/2" HSA and<br>3" x 2' Split Spoon                                                  |  |  | 8. HOLE LOCATION<br>N/A                                                       |                           |
| 9. SURFACE ELEVATION<br>N/A                                                                                                                                             |  |  | 10. DATE STARTED<br>10-1-02                                                   |                           |
| 11. DATE COMPLETED<br>10-1-02                                                                                                                                           |  |  | 12. OVERBURDEN THICKNESS<br>N/A                                               |                           |
| 13. DEPTH DRILLED INTO ROCK<br>N/A                                                                                                                                      |  |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A           |                           |
| 15. TOTAL DEPTH OF HOLE<br>4.0' BGS                                                                                                                                     |  |  | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                           |                           |
| 17. GEOTECHNICAL SAMPLES<br>DISTURBED <input type="checkbox"/> UNDISTURBED <input type="checkbox"/>                                                                     |  |  | 18. TOTAL NUMBER OF CORE BOXES<br>0                                           |                           |
| 19. SAMPLES FOR CHEMICAL ANALYSIS<br>ROC <input type="checkbox"/> METALS <input type="checkbox"/> OTHER (SPECIFY) <input type="checkbox"/>                              |  |  | 20. TOTAL CORE RECOVERY <input type="checkbox"/>                              |                           |
| 21. DISPOSITION OF HOLE<br>SACRIFICED <input type="checkbox"/> MONITORING WELL <input type="checkbox"/> OTHER (SPECIFY) <input type="checkbox"/>                        |  |  | 22. SIGNATURE OF INSPECTOR<br>Phillip M. Hatten                               |                           |
| <div style="display: flex; justify-content: space-between;"> <div> <p>LOCATION SKETCH/COMMENTS</p> <p>North ↑</p> </div> <div> <p>SCALE: Not to scale</p> </div> </div> |  |  |                                                                               |                           |
| PROJECT<br>FUS RAP / SLDS                                                                                                                                               |  |  | HOLE NO.<br>SLD 72792B                                                        |                           |

EM 1110-1-4000  
1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                  |                             |                 |              |                    | HOLE NUMBER<br>SLD 72792 B                                                                                                                                                                   |  |
|----------------------------------------|----------------------------------------------------------------------------------|-----------------------------|-----------------|--------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| PROJECT<br>FUSRAP/SLDS                 |                                                                                  | INSPECTOR<br>Philip Statler |                 |              |                    | SHEET 2 OF 2                                                                                                                                                                                 |  |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS                                                         | WATER<br>NO.                | RECOVERY<br>NO. | WATER<br>NO. | SLUG COUNT<br>(ft) | REMARKS                                                                                                                                                                                      |  |
| 0.0                                    | Silty fine sand, loose, poorly graded, dk. brn, dry, piece of slag, trace chert. | 17,000                      | 0.0             | RECOVERY 8.2 | 5                  | Slag is sub-angular w/ reddish tint.                                                                                                                                                         |  |
| 1.0                                    |                                                                                  | N/A                         | N/A             | no           | 17                 |                                                                                                                                                                                              |  |
| 2.0                                    | pieces of slag                                                                   | N/A                         | N/A             | recovery     | 20                 |                                                                                                                                                                                              |  |
| 3.0                                    |                                                                                  | N/A                         | N/A             |              | 20                 |                                                                                                                                                                                              |  |
| 4.0                                    |                                                                                  | 13,000                      | 0.0             | 0.5/2.0      | 17                 | slag is sub-angular/reddish tint.                                                                                                                                                            |  |
| 5.0                                    |                                                                                  | N/A                         | N/A             | no           | 5                  |                                                                                                                                                                                              |  |
| 6.0                                    |                                                                                  | N/A                         | N/A             | recovery     | 5                  |                                                                                                                                                                                              |  |
| 7.0                                    |                                                                                  | N/A                         | N/A             |              | 8                  |                                                                                                                                                                                              |  |
| 8.0                                    |                                                                                  |                             |                 |              |                    |                                                                                                                                                                                              |  |
| 9.0                                    |                                                                                  |                             |                 |              |                    |                                                                                                                                                                                              |  |
| 10.0                                   |                                                                                  |                             |                 |              |                    |                                                                                                                                                                                              |  |
| TD: 4.0' BGS<br>10-1-02<br>1350        |                                                                                  |                             |                 |              |                    | Background:<br>NAI: 6,400<br>PID: 0.0<br><br>Boring back filled w/ 1/8 bags of bentonite chips.<br><br>Boring drilled to collect lithological data, radiological data not found in SLD 72792 |  |

| HTRW DRILLING LOG                                                                                                       |  |                                        |                                                                     | DISTRICT<br>St. Louis | HOLE NUMBER<br>SLD 72806 |
|-------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------|---------------------------------------------------------------------|-----------------------|--------------------------|
| 1. COMPANY NAME<br>Shaw E & I                                                                                           |  | 2. DRILLING SUBCONTRACTOR<br>MES, Inc. |                                                                     | SHEET<br>1 OF 3       |                          |
| 3. PROJECT<br>FUSRAP/SLDS                                                                                               |  |                                        | 4. LOCATION<br>PSC Metals North Tract V.P.                          |                       |                          |
| 5. NAME OF DRILLER<br>Chris Anthony                                                                                     |  |                                        | 6. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120            |                       |                          |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using 4 1/4" HSA and<br>3" x 2" split spoon. |  |                                        | 8. HOLE LOCATION<br>See location sketch                             |                       |                          |
| 9. SURFACE ELEVATION<br>N/A                                                                                             |  |                                        | 10. DATE STARTED<br>1-13-03                                         |                       |                          |
| 11. DATE COMPLETED<br>1-13-03                                                                                           |  |                                        | 12. OVERBURDEN THICKNESS<br>N/A                                     |                       |                          |
| 13. DEPTH DRILLED INTO ROCK<br>N/A                                                                                      |  |                                        | 15. DEPTH GROUNDWATER ENCOUNTERED<br>N/A                            |                       |                          |
| 14. TOTAL DEPTH OF HOLE<br>16.0 FT BGS                                                                                  |  |                                        | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A |                       |                          |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                                                                     |  |                                        | 18. GYOTECHEMICAL SAMPLES                                           |                       |                          |
| 19. TOTAL NUMBER OF CORE BOXES<br>0                                                                                     |  |                                        | 20. SAMPLES FOR CHEMICAL ANALYSIS                                   |                       |                          |
| 21. TOTAL CORE RECOVERY<br>0%                                                                                           |  |                                        | 22. DISPOSITION OF HOLE                                             |                       |                          |
| 23. SIGNATURE OF INSPECTOR<br>Phillip Statler                                                                           |  |                                        | 24. LOCATION SKETCH/COMMENTS                                        |                       |                          |
| 25. WITNESSED BY: Phillip Statler                                                                                       |  |                                        | 26. SCALE: Not to Scale                                             |                       |                          |
| 27. TERMS USED TO DESCRIBE %                                                                                            |  |                                        | 28. LOCATION SKETCH/COMMENTS                                        |                       |                          |
| Trace - < 5%                                                                                                            |  |                                        | SLD 72806                                                           |                       |                          |
| Few - 5-10%                                                                                                             |  |                                        | (Area M)                                                            |                       |                          |
| Little - 15-25%                                                                                                         |  |                                        | Green Bldg.                                                         |                       |                          |
| Same - 20-35%                                                                                                           |  |                                        |                                                                     |                       |                          |
| Mostly - 50-100%                                                                                                        |  |                                        |                                                                     |                       |                          |
| PROJECT<br>FUSRAP/SLDS                                                                                                  |  |                                        | HOLE NO.<br>SLD 72806                                               |                       |                          |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                                            |                                              |                    |                                          |                      | WELL NUMBER                     |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------------------|------------------------------------------|----------------------|---------------------------------|
| PROJECT                                |                                                                                                                                            | INSPECTOR                                    | SHEET              |                                          | SHEETS               |                                 |
| FUSRAP / SLDS                          |                                                                                                                                            | Phillip Stator                               | SLD 72806          |                                          | 2 of 3               |                                 |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                                                                                   | RECOVERY (%)                                 | REMARKS            | DEPTH (ft)                               | REMARKS              | REMARKS                         |
| 1.0                                    | silty clay w/ some fine sand, and few med. gravel, 5 ft. to 10 ft. red, plant, dk. brk, dry, trace brick frags, trace cinders, trace slag. | 5700 0.0<br>6000 0.0<br>5200 0.0<br>5600 0.0 | RECOVERY 2.0 / 2.0 | SLD 72806 1-18-03 1115<br>SLD 72807 1120 | 19<br>18<br>18<br>15 |                                 |
| 2.0                                    | piece of metal                                                                                                                             | 5700 0.0<br>6300 0.0<br>5800 0.0<br>5900 0.0 | 2.0 / 2.0          | SLD 72808 1130                           | 14<br>19<br>18<br>14 |                                 |
| 3.0                                    | few fine sand, gravel absent, some brick frags.                                                                                            | 5700 0.0<br>6300 0.0<br>5800 0.0<br>5900 0.0 | 2.0 / 2.0          | SLD 72809 1140                           | 5<br>4<br>6<br>5     |                                 |
| 4.0                                    | cinders and slag absent, brick frags absent                                                                                                | 5700 0.0<br>6000 0.0<br>6100 0.0<br>5900 0.0 | 1.8 / 2.0          | SLD 72806 1150                           | 5<br>4<br>5<br>5     |                                 |
| 5.0                                    | few cinders, few slag.                                                                                                                     | 5700 0.0<br>6200 0.0<br>5600 0.0<br>5800 0.0 | 2.0 / 2.0          | SLD 72806 1150                           | 5<br>4<br>5<br>5     | archive sample from 6.5-7.0 BAS |
| 6.0                                    | few brick frags, bone frag.                                                                                                                | 5700 0.0<br>6200 0.0<br>5600 0.0<br>5800 0.0 | 1.8 / 2.0          | SLD 72806 1150                           | 3<br>4<br>6<br>10    | archive sample from 8.5-9.0 BAS |
| 7.0                                    | few pieces of porcelain, few brick frags.                                                                                                  | 5700 0.0<br>6200 0.0<br>5600 0.0<br>5800 0.0 | 1.8 / 2.0          | SLD 72806 1150                           |                      |                                 |
| 8.0                                    | few cinders, few slag, few brick frags, trace glass.                                                                                       | 5700 0.0<br>6200 0.0<br>5600 0.0<br>5800 0.0 | 1.8 / 2.0          | SLD 72806 1150                           |                      |                                 |
| 9.0                                    | T nail                                                                                                                                     | 5700 0.0<br>6200 0.0<br>5600 0.0<br>5800 0.0 | 1.8 / 2.0          | SLD 72806 1150                           |                      |                                 |
| 10.0                                   |                                                                                                                                            | 5700 0.0<br>6200 0.0<br>5600 0.0<br>5800 0.0 | 1.8 / 2.0          | SLD 72806 1150                           |                      |                                 |

EM 1110-1-4000  
1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                            |                             |                 |                                           |                      | HOLE NUMBER<br>SLD 72806                                                                                        |    |
|----------------------------------------|----------------------------------------------------------------------------|-----------------------------|-----------------|-------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------|----|
| PROJECT<br>FUSRAP/SLDS                 |                                                                            | INSPECTOR<br>Phillip Stator |                 | SHEET<br>3 of 3                           |                      | SHEET                                                                                                           |    |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS<br>(1)                                            | NO. OF<br>SAMPLES<br>(2)    | RECOVERY<br>(3) | ANALYTICAL<br>LABORATORY<br>(4)           | BLANK CORRECT<br>(5) | REMARKS<br>(6)                                                                                                  |    |
| CL                                     | trace limestone cobbles                                                    | 5400<br>0.0                 | 1.6/<br>2.0     | SLD<br>72806<br>archive<br>1300           | 7                    |                                                                                                                 |    |
|                                        | trace wood frags.                                                          | 5500<br>0.0                 |                 |                                           |                      |                                                                                                                 |    |
|                                        | clay turning lt. gray                                                      | 5900<br>0.0                 | 5               | archive sample<br>from 11.1-11.6'<br>BGS. |                      |                                                                                                                 |    |
|                                        |                                                                            | 6100<br>0.0                 | 6               |                                           |                      |                                                                                                                 |    |
|                                        | trace brick frags                                                          | 5100<br>0.0                 | 3               |                                           |                      |                                                                                                                 |    |
| SM                                     |                                                                            | 6500<br>0.0                 | 1.7/<br>2.0     | SLD<br>72806<br>archive<br>1300           | 8                    | archive sample<br>from 12.5-<br>13.0' BGS.                                                                      |    |
|                                        |                                                                            | 5300<br>0.0                 |                 |                                           |                      |                                                                                                                 | 11 |
|                                        | silty fine sand, loose<br>to med. dense, poorly<br>graded, lt. brn, moist. | 5500<br>0.0                 | no recovery     | SLD<br>72806<br>archive<br>1300           | 13                   | archive sample<br>from 13.2-<br>13.7' BGS.                                                                      |    |
|                                        |                                                                            | 6000<br>0.0                 |                 |                                           |                      |                                                                                                                 |    |
|                                        | textured, trace roots.                                                     | 5700<br>0.0                 | 2.0/<br>2.0     | SLD<br>72806<br>1400                      | 4                    | in-situ-<br>encountered.                                                                                        |    |
|                                        |                                                                            | 5700<br>0.0                 |                 |                                           |                      |                                                                                                                 | 3  |
|                                        |                                                                            | 5700<br>0.0                 |                 |                                           |                      |                                                                                                                 | 6  |
|                                        |                                                                            | 5800<br>0.0                 |                 |                                           |                      |                                                                                                                 | 5  |
|                                        | TD: 16.0' BGS<br>1-13-03<br>1330                                           |                             |                 |                                           |                      | Background:<br>NaI: 5,418<br>PID: 0.0<br><br>Backfilled<br>boring w/<br>strength<br>grout (@20-<br>30% solids). |    |
|                                        |                                                                            |                             |                 |                                           |                      |                                                                                                                 |    |
|                                        |                                                                            |                             |                 |                                           |                      |                                                                                                                 |    |
|                                        |                                                                            |                             |                 |                                           |                      |                                                                                                                 |    |
|                                        |                                                                            |                             |                 |                                           |                      |                                                                                                                 |    |
|                                        |                                                                            |                             |                 |                                           |                      |                                                                                                                 |    |
|                                        |                                                                            |                             |                 |                                           |                      |                                                                                                                 |    |
|                                        |                                                                            |                             |                 |                                           |                      |                                                                                                                 |    |
|                                        |                                                                            |                             |                 |                                           |                      |                                                                                                                 |    |
|                                        |                                                                            |                             |                 |                                           |                      |                                                                                                                 |    |

PROJECT  
FUSRAP/SLDS

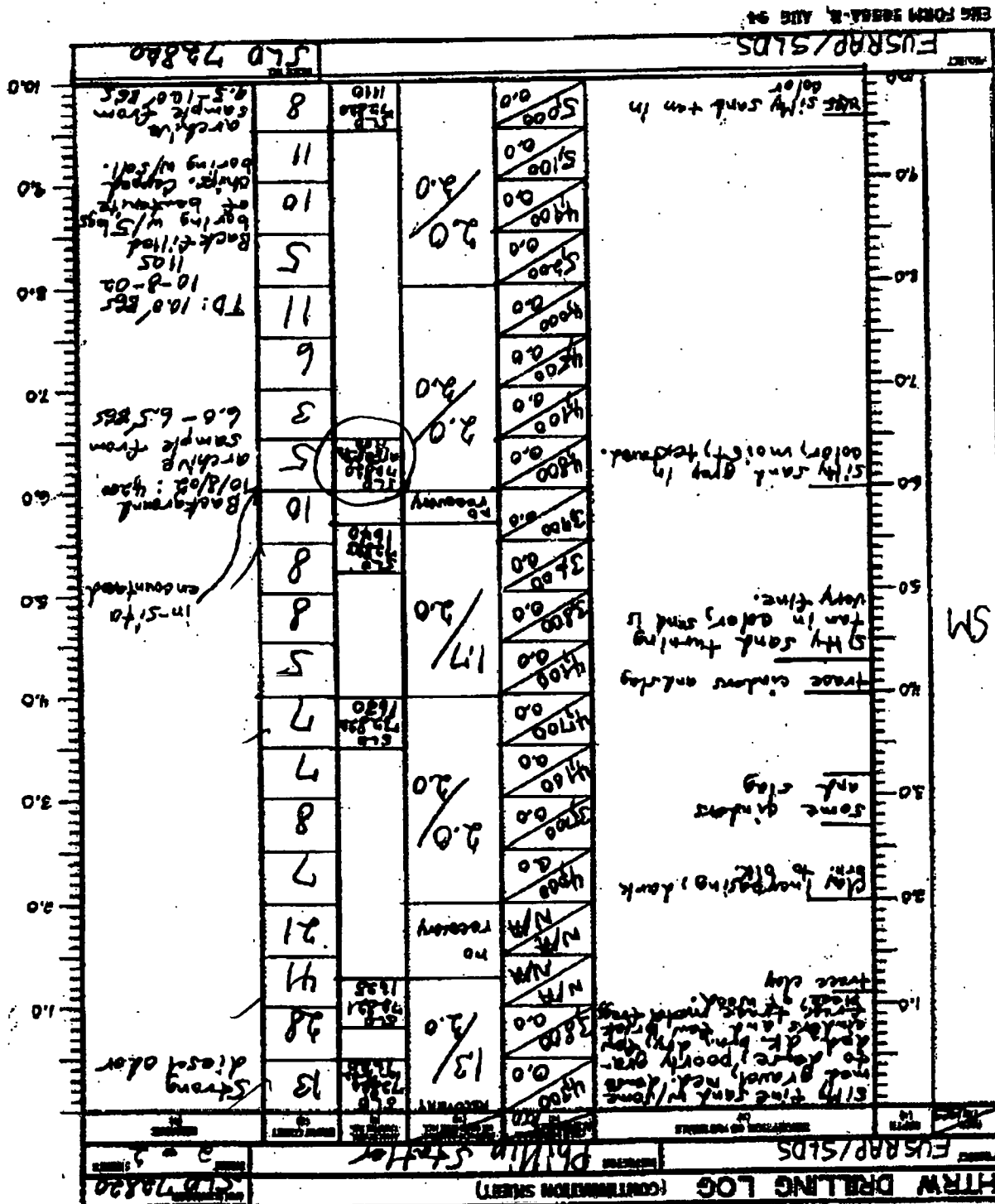
HOLE NO.  
SLD 72806



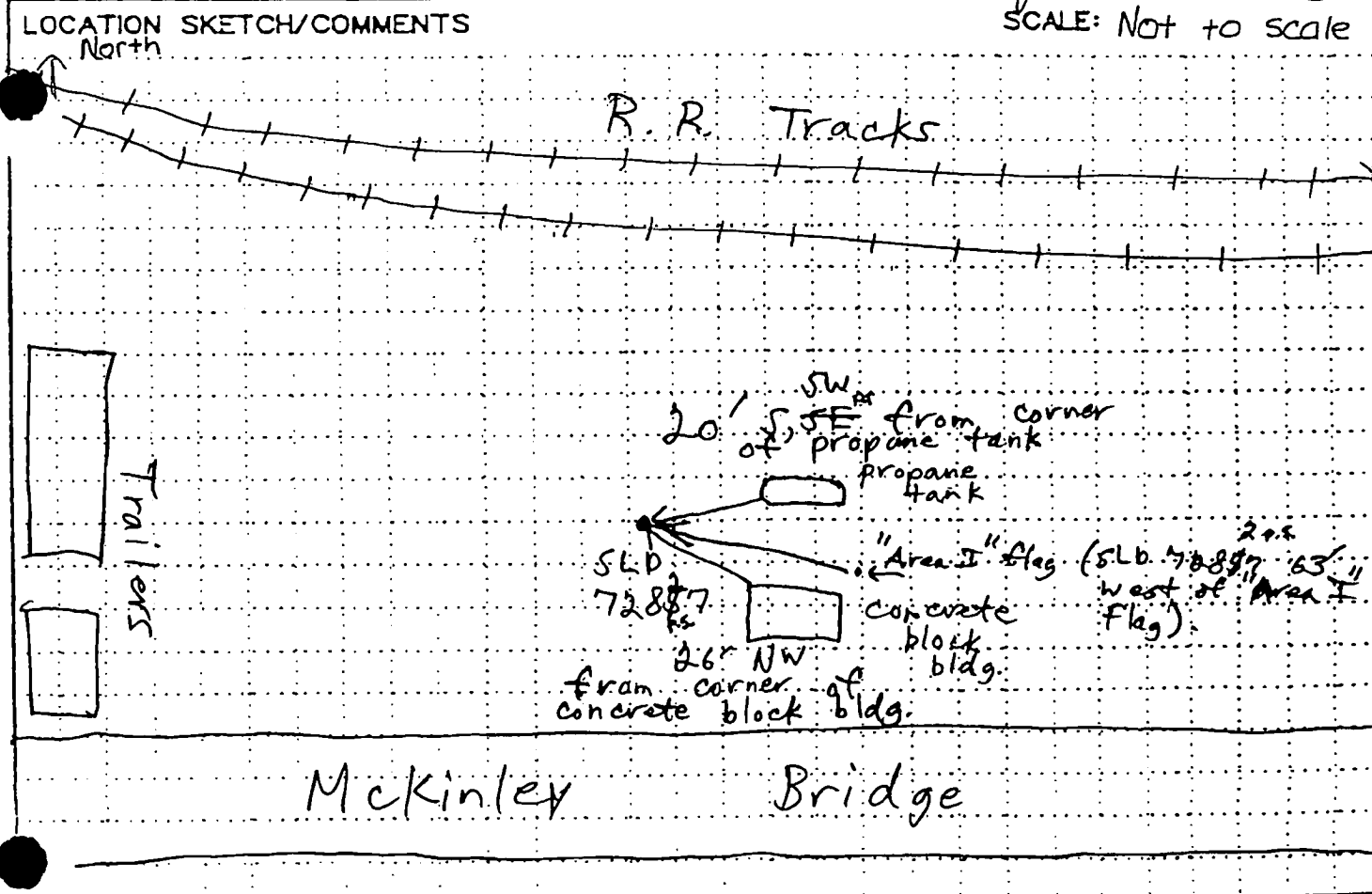








|                                                                                                                                                                             |  |                                                                          |  |                                                             |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------|--|-------------------------------------------------------------|--|
| <b>HTRW DRILLING LOG</b>                                                                                                                                                    |  | DISTRICT<br>St. Louis                                                    |  | HOLE NUMBER<br>SLD 72827                                    |  |
| COMPANY NAME<br>Shaw E + I                                                                                                                                                  |  | 2. DRILLING SUBCONTRACTOR<br>MES, Inc.                                   |  | SHEET<br>1 of 3                                             |  |
| 1. PROJECT<br>FUS RAP / SLDs                                                                                                                                                |  | 4. LOCATION<br>PSC Metals North Tract V.P.<br>City of Venice, IL V.P. 86 |  |                                                             |  |
| 5. NAME OF DRILLER<br>Chris Anthony                                                                                                                                         |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120                 |  |                                                             |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using 4 1/4" HSA and<br>3" x 2' Split Spoon                                                      |  | 8. HOLE LOCATION<br>N/A                                                  |  |                                                             |  |
|                                                                                                                                                                             |  | 9. SURFACE ELEVATION<br>N/A                                              |  |                                                             |  |
| PID 10-10-02 NAT LUD 172040<br>to 100/100 core 4-1-03 BgK = 6200                                                                                                            |  | 10. DATE STARTED<br>10-10-02                                             |  | 11. DATE COMPLETED<br>10-10-02                              |  |
| 12. OVERBURDEN THICKNESS<br>N/A                                                                                                                                             |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br>16.0' BGS - N/A PS                  |  |                                                             |  |
| 13. DEPTH DRILLED INTO ROCK<br>N/A                                                                                                                                          |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A      |  |                                                             |  |
| 14. TOTAL DEPTH OF HOLE<br>20.0' BGS                                                                                                                                        |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                      |  |                                                             |  |
| 18. GEOTECHNICAL SAMPLES<br>DISTURBED <input checked="" type="checkbox"/> UNDISTURBED <input checked="" type="checkbox"/>                                                   |  | 19. TOTAL NUMBER OF CORE BOXES<br><input checked="" type="checkbox"/>    |  |                                                             |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS<br>ROC <input checked="" type="checkbox"/> METALS <input checked="" type="checkbox"/> OTHER (SPECIFY) <input checked="" type="checkbox"/> |  | OTHER (SPECIFY) <input checked="" type="checkbox"/>                      |  | OTHER (SPECIFY) <input checked="" type="checkbox"/>         |  |
| 22. DEPOSITION OF HOLE<br>SACRIFICED <input checked="" type="checkbox"/> MONITORING WELL <input checked="" type="checkbox"/>                                                |  | OTHER (SPECIFY) <input checked="" type="checkbox"/>                      |  | 21. TOTAL CORE RECOVERY <input checked="" type="checkbox"/> |  |
|                                                                                                                                                                             |  | 23. SIGNATURE OF INSPECTOR<br>Phillip R. Stalder                         |  |                                                             |  |



| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                   |                              |              |                        |                      | HOLE NUMBER<br>SLP 72827         |  |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------|--------------|------------------------|----------------------|----------------------------------|--|
| PROJECT<br>FUSRAP/SLDS                 |                                                                                                                   | INSPECTOR<br>Phillip Statler |              |                        |                      | SHEET 2 OF 3                     |  |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS (1)                                                                                      | WATER SAMPLE NO. (2)         | RECOVERY (3) | WATER SAMPLE NO. (4)   | WATER SAMPLE NO. (5) | REMARKS (6)                      |  |
| 0.0                                    | Silty fine sand w/ some med gravel, med dense, poorly graded, dry, blk, some cinders and slag, trace brick frags. | 6300                         | 2.0          | SLP 72827 1070-02 1000 | 13                   |                                  |  |
| 1.0                                    |                                                                                                                   | 7000                         | 2.0          |                        | 13                   |                                  |  |
| 2.0                                    |                                                                                                                   | 7000                         |              | SLP 72828 1010         | 13                   |                                  |  |
| 3.0                                    |                                                                                                                   | 6200                         |              |                        | 10                   |                                  |  |
| 4.0                                    |                                                                                                                   | 5900                         | 1.7          |                        | 6                    |                                  |  |
| 5.0                                    |                                                                                                                   | 5900                         | 2.0          |                        | 5                    |                                  |  |
| 6.0                                    |                                                                                                                   | 6500                         |              | SLP 72829 1025         | 4                    |                                  |  |
| 7.0                                    |                                                                                                                   | 6300                         | no recovery  |                        | 4                    |                                  |  |
| 8.0                                    |                                                                                                                   | 5700                         | 1.6          |                        | 3                    |                                  |  |
| 9.0                                    |                                                                                                                   | 5800                         | 2.0          |                        | 3                    |                                  |  |
| 10.0                                   | trace clay, trace med. gravel.                                                                                    | 6300                         |              | SLP 72830 1035         | 4                    |                                  |  |
| 11.0                                   |                                                                                                                   | N/A                          | no recovery  |                        | 4                    |                                  |  |
| 12.0                                   |                                                                                                                   | 5900                         | 1.6          | SLP 72832 1050         | 5                    | archive sample from 6.3-6.8 BGS. |  |
| 13.0                                   |                                                                                                                   | 6500                         | 2.0          |                        | 5                    |                                  |  |
| 14.0                                   |                                                                                                                   | 6200                         |              |                        | 3                    |                                  |  |
| 15.0                                   |                                                                                                                   | N/A                          | no recovery  |                        | 5                    |                                  |  |
| 16.0                                   |                                                                                                                   | 5800                         |              |                        | 5                    |                                  |  |
| 17.0                                   |                                                                                                                   | 5900                         | 2.0          |                        | 8                    |                                  |  |
| 18.0                                   |                                                                                                                   | 6600                         |              | SLP 72837 1105         | 13                   | archive sample from 9.3-9.8 BGS. |  |
| 19.0                                   |                                                                                                                   | 6500                         |              |                        | 7                    |                                  |  |
| 20.0                                   | clay turning lt gray, moist, no brick frags, cinders or slag                                                      |                              |              |                        |                      |                                  |  |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                           |                             |             |                 |         | HOLE NUMBER<br>SLD 72827 |                                        |
|----------------------------------------|---------------------------------------------------------------------------|-----------------------------|-------------|-----------------|---------|--------------------------|----------------------------------------|
| PROJECT<br>FUSRAP/SLDS                 |                                                                           | INSPECTOR<br>Philip Statler |             | SHEET<br>3 OF 3 |         | SHEET NO.<br>3           |                                        |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS                                                  | RECOVERY<br>(%)             | REMARKS     | REMARKS         | REMARKS | REMARKS                  | REMARKS                                |
| 11.0                                   | wood frags, weathered, flaky<br>piece of large limstone                   | 5800<br>0.0                 | 1.8/<br>2.0 | 3               |         |                          |                                        |
|                                        |                                                                           | 6300<br>0.0                 |             | 4               |         |                          | archive sample from 10.8-11.3 BGS      |
|                                        |                                                                           | 6400<br>0.0                 |             | 5               |         |                          | archive sample from 11.3-11.8 BGS      |
| 12.0                                   | silty fine sand, loose, poorly graded, H. gry, moist                      | 5800<br>0.0                 | no recovery | 5               |         |                          |                                        |
|                                        |                                                                           | 5400<br>0.0                 |             | 2               |         |                          |                                        |
|                                        |                                                                           | 6000<br>0.0                 | 1.6/<br>2.0 | 2               |         |                          |                                        |
| 13.0                                   | wood frags, weathered, flaky, blk, some larger frags (possibly driftwood) | 6800<br>0.0                 |             | 3               |         |                          | archive sample from 13.1-13.6 BGS      |
|                                        |                                                                           | 6100<br>0.0                 | No recovery | 10              |         |                          | driftwood at from 13.3-13.6 BGS        |
| 14.0                                   |                                                                           | 5900<br>0.0                 | 2.0/<br>2.0 | 2               |         |                          |                                        |
|                                        |                                                                           | 6000<br>0.0                 |             | 2               |         |                          |                                        |
| 15.0                                   |                                                                           | 5900<br>0.0                 |             | 2               |         |                          |                                        |
|                                        |                                                                           | 6200<br>0.0                 |             | 4               |         |                          | archive sample from 15.5-16.0 BGS      |
| 16.0                                   | trace flaky weath. wood frags textured, wet                               | 5400<br>0.0                 |             | 4               |         |                          | in-situ encountered                    |
|                                        |                                                                           | 5300<br>0.0                 | 2.0/<br>2.0 | 7               |         |                          |                                        |
| 17.0                                   |                                                                           | 6200<br>0.0                 |             | 8               |         |                          |                                        |
|                                        |                                                                           | 5600<br>0.0                 |             | 7               |         |                          |                                        |
| 18.0                                   | silty clay, soft to med. stiff, med. plant, gry, wet.                     | 5800<br>0.0                 | 2.0/<br>2.0 | 3               |         |                          | archive sample from 18.0-18.5 BGS      |
|                                        |                                                                           | 6300<br>0.0                 |             | 3               |         |                          | TD: 20.0' BGS                          |
| 19.0                                   |                                                                           | 6200<br>0.0                 |             | 4               |         |                          | 10-10-02 Backfilled w/ strength grout. |
|                                        |                                                                           | 6000<br>0.0                 |             | 6               |         |                          | Capable soil.                          |
| 20.0                                   |                                                                           |                             |             |                 |         |                          |                                        |

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                                            |  | DISTRICT <b>St. Louis</b>                                                                                                      |  | HOLE NUMBER <b>SLB 72939</b>                      |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------|--|
| 1. COMPANY NAME<br><b>Shaw E &amp; I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | 2. DRILLING SUBCONTRACTOR<br><b>MES, Inc.</b>                              |  | 3. PROJECT<br><b>FUSRAP/SLDS</b>                                                                                               |  | 4. LOCATION<br><b>PSC Metals North Tract V.P.</b> |  |
| 5. NAME OF DRILLER<br><b>Chris Anthony</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><b>Diedrich D-120</b>            |  | 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><b>Diedrich D-120<br/>Using 3/4" HSA and<br/>3" x 3" split spear.</b> |  | 8. HOLE LOCATION<br><b>See location sketch</b>    |  |
| 9. OVERBURDEN THICKNESS<br><b>N/A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | 10. DATE STARTED<br><b>2-12-03</b>                                         |  | 11. DATE COMPLETED<br><b>2-12-03</b>                                                                                           |  | 12. DEPTH DRILLED INTO ROCK<br><b>N/A</b>         |  |
| 13. TOTAL DEPTH OF HOLE<br><b>6.0 FT BGS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><b>N/A</b> |  | 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><b>N/A</b>                                                                     |  | 16. TOTAL NUMBER OF CORE BOXES<br><b>0</b>        |  |
| 17. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | 18. SAMPLES FOR CHEMICAL ANALYSIS                                          |  | 19. DISPOSITION OF HOLE                                                                                                        |  | 20. SIGNATURE OF INSPECTOR                        |  |
| DISTURBED <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | UNDISTURBED <input type="checkbox"/>                                       |  | YES <input type="checkbox"/>                                                                                                   |  | NO <input type="checkbox"/>                       |  |
| ROCK <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | METALS <input type="checkbox"/>                                            |  | MONITORING WELL <input type="checkbox"/>                                                                                       |  | OTHER (SPECIFY) <input type="checkbox"/>          |  |
| OTHER (SPECIFY) <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | OTHER (SPECIFY) <input type="checkbox"/>                                   |  | OTHER (SPECIFY) <input type="checkbox"/>                                                                                       |  | OTHER (SPECIFY) <input type="checkbox"/>          |  |
| YES <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | N/A <input type="checkbox"/>                                               |  | N/A <input type="checkbox"/>                                                                                                   |  | N/A <input type="checkbox"/>                      |  |
| N/A <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | N/A <input type="checkbox"/>                                               |  | N/A <input type="checkbox"/>                                                                                                   |  | N/A <input type="checkbox"/>                      |  |
| <div style="display: flex; justify-content: space-between;"> <div> <p>LOCATION SKETCH/COMMENTS</p> <p><b>Bremen St.</b></p> <p><b>HTZ 66222</b></p> <p><b>HTZ 66254</b></p> <p><b>HTZ 66219</b></p> <p><b>SLB 72943</b></p> <p><b>SLB 72939</b></p> <p><b>fence</b></p> <p><b>SLB 72939</b></p> <p><b>N</b></p> </div> <div> <p>Witnessed by: <b>Phillip Statler</b></p> <p>SCALE: Not to Scale</p> <p>Terms used to describe %</p> <p>Trace - &lt; 5 %</p> <p>Few - 5 - 10 %</p> <p>Little - 15 - 25 %</p> <p>Some - 20 - 35 %</p> <p>Mostly - 50 - 100 %</p> </div> </div> |  |                                                                            |  |                                                                                                                                |  |                                                   |  |
| PROJECT <b>FUSRAP/SLDS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                            |  |                                                                                                                                |  | HOLE NO. <b>SLB 72939</b>                         |  |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                                    |                              |                        |                  |                  |                      | WELL NUMBER<br>SLD 72939                                                                                                                                                                               |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------|------------------|------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROJECT<br>FUSRAP / SLDs               |                                                                                                                                    | INSPECTOR<br>Phillip Statler |                        |                  |                  |                      | DATE<br>2 - 2                                                                                                                                                                                          |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS<br>(ft)                                                                                                   | RECOVERY<br>(ft)             | RECOVERY<br>(ft)       | RECOVERY<br>(ft) | RECOVERY<br>(ft) | RECOVERY<br>(ft)     | REMARKS<br>(ft)                                                                                                                                                                                        |
| 1.0                                    | Silty fine sand w/ few med. gravel, loose to med. dense, poorly graded, lt. brn, dry, some cinders, some slag, few "reddish" slag. | 7100<br>0.0                  | RECOVERY<br>1.8<br>2.0 | 0.0-0.5'<br>1020 | 14               | SLD<br>72939<br>1020 |                                                                                                                                                                                                        |
|                                        |                                                                                                                                    | 6600<br>0.0                  |                        | 0.5-1.0'<br>1022 | 8                |                      |                                                                                                                                                                                                        |
|                                        |                                                                                                                                    | 7200<br>0.0                  |                        | 1.0-1.5'<br>1023 | 5                | SLD<br>72940<br>1023 |                                                                                                                                                                                                        |
|                                        |                                                                                                                                    | 7000<br>0.0                  |                        | 1.5-1.8'<br>1027 | 4                |                      |                                                                                                                                                                                                        |
| 2.0                                    |                                                                                                                                    | 6900<br>0.0                  | no recovery            | 2.0-2.5'<br>1033 | 3                |                      |                                                                                                                                                                                                        |
|                                        |                                                                                                                                    | 7200<br>0.0                  | 1.4<br>2.0             | 2.5-3.0'<br>1035 | 2                | SLD<br>72941<br>1035 |                                                                                                                                                                                                        |
|                                        |                                                                                                                                    | 7200<br>0.0                  |                        | 3.0-3.4'<br>1040 | 2                |                      |                                                                                                                                                                                                        |
|                                        |                                                                                                                                    | N/A<br>N/A                   | no recovery            |                  | 1                |                      |                                                                                                                                                                                                        |
| 4.0                                    |                                                                                                                                    | 6500<br>0.0                  | 1.4<br>2.0             | 4.0-4.5'<br>1010 | 1                | SLD<br>72942<br>1010 |                                                                                                                                                                                                        |
|                                        |                                                                                                                                    | 6600<br>0.0                  |                        | 4.5-5.0'<br>1012 | 1                | SLD<br>72942<br>1012 |                                                                                                                                                                                                        |
| 5.0                                    | Silty clay, soft, med. plastic, dk. brn, dry.                                                                                      | 6100<br>0.0                  |                        | 5.0-5.4' (1015)  | 1                |                      |                                                                                                                                                                                                        |
|                                        |                                                                                                                                    | N/A<br>N/A                   | no recovery            |                  | 1                |                      |                                                                                                                                                                                                        |
| 6.0                                    |                                                                                                                                    |                              |                        |                  |                  |                      |                                                                                                                                                                                                        |
| 7.0                                    | Tb: 6.0' BGS<br>2-12-03<br>1035                                                                                                    |                              |                        |                  |                  |                      | Back ground:<br>NaI: 6047<br>PID: 0.0<br>Backfilled<br>boring w/<br>3.0 bags of<br>bentonite<br>chips.<br>* Samples<br>will be coun-<br>ted using gas<br>proportional<br>meter (See<br>attached sheet) |
| 8.0                                    |                                                                                                                                    |                              |                        |                  |                  |                      |                                                                                                                                                                                                        |
| 9.0                                    |                                                                                                                                    |                              |                        |                  |                  |                      |                                                                                                                                                                                                        |
| 10.0                                   |                                                                                                                                    |                              |                        |                  |                  |                      |                                                                                                                                                                                                        |

RADIOLOGICAL SURVEY FORM

Sample ID SLD 72939

Date Sample was collected: 2-12-03

Date Sample was analyzed: 2-20-03

Instrument #1 Background 6833 cpm

Instrument #2 Background 4817 cpm

Count rate of Empty Pan: Beta 98 cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 0-6                      | 7100                                                      | 267                               | 4708                                                  | -109                          | 106                                | 8        |
| 6-12                     | 6600                                                      | -233                              | 5183                                                  | 366                           | 135                                | 37       |
| 12-18                    | 7200                                                      | 367                               | 5214                                                  | 397                           | 186                                | 88       |
| 18-24                    | 7000                                                      | 167                               | 5015                                                  | 198                           | 151                                | 53       |
| 24-30                    | 6900                                                      | 67                                | 5095                                                  | 278                           | 144                                | 46       |
| 30-36                    | 7200                                                      | 367                               | 5699                                                  | 882                           | 215                                | 117      |
| 36-42                    | 7200                                                      | 367                               | 5417                                                  | 600                           | 182                                | 84       |
| 42-48                    | N/A                                                       | N/A                               | N/A                                                   | N/A                           | N/A                                | N/A      |
| 48-54                    | 6300                                                      | -533                              | 5177                                                  | 360                           | 153                                | 55       |
| 54-60                    | 6600                                                      | -233                              | 5051                                                  | 234                           | 161                                | 63       |
| 60-66                    | 6100                                                      | -733                              | 5002                                                  | 185                           | 149                                | 51       |
| 66-72                    | N/A                                                       | N/A                               | N/A                                                   | N/A                           | N/A                                | N/A      |

SLD 72939

SLD 72940

SLD 72941

SLD 72939 (archive)

SLD 72942

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                       |  |  |  | DISTRICT <b>St. Louis</b>                                                  |  | HOLE NUMBER<br><b>SLD 72943</b> |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|----------------------------------------------------------------------------|--|---------------------------------|--|
| 1. COMPANY NAME<br><b>Shaw E &amp; I</b>                                                                                                                                                                                                                                                                                                                                |  |  |  | 2. DRILLING SUBCONTRACTOR<br><b>MES, Inc.</b>                              |  | SHEET <b>1</b> OF <b>2</b>      |  |
| 3. PROJECT<br><b>FUSRAP/SLDS</b>                                                                                                                                                                                                                                                                                                                                        |  |  |  | 4. LOCATION<br><b>PSC Metals North Tract V.P.</b>                          |  |                                 |  |
| 5. NAME OF DRILLER<br><b>Chris Anthony</b>                                                                                                                                                                                                                                                                                                                              |  |  |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><b>Diedrich D-120</b>            |  |                                 |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><b>Diedrich D-120<br/>using FWHSA and<br/>3" X 2" split spoon.</b>                                                                                                                                                                                                                                             |  |  |  | 8. HOLE LOCATION<br><b>See location sketch</b>                             |  |                                 |  |
| 9. SURFACE ELEVATION<br><b>N/A</b>                                                                                                                                                                                                                                                                                                                                      |  |  |  | 10. DATE STARTED<br><b>2-6-03</b>                                          |  |                                 |  |
| 11. DATE COMPLETED<br><b>2-6-03</b>                                                                                                                                                                                                                                                                                                                                     |  |  |  | 12. OVERBURDEN THICKNESS<br><b>N/A</b>                                     |  |                                 |  |
| 13. DEPTH DRILLED INTO ROCK<br><b>N/A</b>                                                                                                                                                                                                                                                                                                                               |  |  |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><b>N/A</b> |  |                                 |  |
| 15. DEPTH GROUNDWATER ENCOUNTERED<br><b>N/A</b>                                                                                                                                                                                                                                                                                                                         |  |  |  | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><b>N/A</b>                 |  |                                 |  |
| 17. TOTAL DEPTH OF HOLE<br><b>6.0 FT BGS</b>                                                                                                                                                                                                                                                                                                                            |  |  |  | 18. GEOTECHNICAL SAMPLES                                                   |  |                                 |  |
| 19. TOTAL NUMBER OF CORE BOXES<br><b>0</b>                                                                                                                                                                                                                                                                                                                              |  |  |  | 20. SAMPLES FOR CHEMICAL ANALYSIS                                          |  |                                 |  |
| 21. TOTAL CORE RECOVERY<br><b>0 %</b>                                                                                                                                                                                                                                                                                                                                   |  |  |  | 22. DISPOSITION OF HOLE                                                    |  |                                 |  |
| 23. SIGNATURE OF INSPECTOR<br><b>Phillip D. Statler</b>                                                                                                                                                                                                                                                                                                                 |  |  |  | 24. LOCATION SKETCH/COMMENTS                                               |  |                                 |  |
| 25. WITNESSED BY<br><b>Phillip Statler</b>                                                                                                                                                                                                                                                                                                                              |  |  |  | 26. SCALE<br><b>Not to Scale</b>                                           |  |                                 |  |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p>LOCATION SKETCH/COMMENTS</p> </div> <div style="width: 35%; border: 1px solid black; padding: 5px;"> <p>Terms used to describe %</p> <p>Trace - &lt; 5 %</p> <p>Few - 5 - 10 %</p> <p>Little - 15 - 25 %</p> <p>Some - 20 - 35 %</p> <p>Mostly - 50 - 100 %</p> </div> </div> |  |  |  |                                                                            |  |                                 |  |
| PROJECT<br><b>FUSRAP/SLDS</b>                                                                                                                                                                                                                                                                                                                                           |  |  |  | HOLE NO.<br><b>SLD 72943</b>                                               |  |                                 |  |



| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                            |                                  |                           |                                        |                   |                                                    | SLD 72943                                          |  |
|----------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------|----------------------------------------|-------------------|----------------------------------------------------|----------------------------------------------------|--|
| PROJECT FUSRAP / SLD5                  |                                                                                                            |                                  | INSPECTOR Phillip Statler |                                        |                   | SHEET 2 of 2                                       |                                                    |  |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                                                   | TESTS                            | RECOVERY                  | ANALYSIS                               | WATER CONTENT (%) | LABORATORY                                         | REMARKS                                            |  |
| 0.0 - 1.0                              | Silty fine sand & some med. gravel (loose, poorly graded, dk. brn. to blk, dry, some cin. drags some slag) | 5900 0.0<br>5900 0.0<br>5900 0.0 | 2.0 / 2.0                 | 10-08 1605<br>08-10 1607<br>10-18 1610 | 6<br>8<br>8       | SLD 72943 1605<br>SLD 72944 1807<br>SLD 72945 1610 |                                                    |  |
| 1.0 - 2.0                              | Silty clay and stiff med. plastic, to brn, moist.                                                          | 5900 0.0<br>5900 0.0             | 1.6 / 2.0                 | 10-25 1615<br>25-30 1617               | 5<br>3            | SLD 72945 1617                                     |                                                    |  |
| 2.0 - 3.0                              | Few med. gravel                                                                                            | 5900 0.0<br>4700 0.0             | 1.8 / 2.0                 | 30-36 1620                             | 8                 |                                                    |                                                    |  |
| 3.0 - 4.0                              |                                                                                                            | N/A<br>N/A                       | no recovery               |                                        | 8                 |                                                    |                                                    |  |
| 4.0 - 5.0                              |                                                                                                            | 4800 0.0<br>4800 0.0             | 1.8 / 2.0                 | 40-45 1450<br>45-50 1452               | 3<br>5            |                                                    |                                                    |  |
| 5.0 - 6.0                              |                                                                                                            | 5100 0.0<br>4800 0.0             | no recovery               | 50-58 1450                             | 8<br>8            | SLD 72946 1455                                     |                                                    |  |
| 6.0 - 7.0                              | TD: 6.0' BBS                                                                                               |                                  |                           |                                        |                   |                                                    | Background: 4.55                                   |  |
| 7.0 - 8.0                              | 2-6-03                                                                                                     |                                  |                           |                                        |                   |                                                    | NAT: 172040                                        |  |
| 8.0 - 9.0                              | 1615                                                                                                       |                                  |                           |                                        |                   |                                                    | PID: 20 AS                                         |  |
| 9.0 - 10.0                             |                                                                                                            |                                  |                           |                                        |                   |                                                    | Back-filled boring w/ 3.0 bags of bentonite chips. |  |

RADIOLOGICAL SURVEY FORM

Sample ID SLD 72943 PDI

Date Sample was collected: 2-6-03

Date Sample was analyzed: 2-11-03

Instrument #1 Background 4655cpm

Instrument #2 Background 4851cpm

Count rate of Empty Pan: Beta 24cpm 99cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 0-6                      | 5900                                                      | 1245                              | 7231                                                  | 2380                          | 639                                | 540      |
| 6-12                     | 5600                                                      | 945                               | 5587                                                  | 736                           | 269                                | 170      |
| 12-18                    | 5000                                                      | 345                               | 4951                                                  | 100                           | 152                                | 53       |
| 18-24                    | 5400                                                      | 745                               | 5122                                                  | 271                           | 138                                | 39       |
| 24-30                    | 5000                                                      | 345                               | 4822                                                  | -29                           | 166                                | 67       |
| 30-36                    | 5600                                                      | 945                               | 5209                                                  | 358                           | 129                                | 30       |
| 36-42                    | 4700                                                      | 45                                | 4930                                                  | 79                            | 150                                | 151      |
| 42-48                    | N/A                                                       | N/A                               | N/A                                                   | N/A                           | N/A                                | N/A      |
| 48-54                    | 4800                                                      | 145                               | 5277                                                  | 426                           | 172                                | 73       |
| 54-60                    | 4800                                                      | 145                               | 5168                                                  | 317                           | 150                                | 51       |
| 60-66                    | 5100                                                      | 445                               | 5321                                                  | 470                           | 159                                | 60       |
| 66-72                    | N/A                                                       | N/A                               | N/A                                                   | N/A                           | N/A                                | N/A      |

RADIOLOGICAL SURVEY FORM

Sample ID SLD 72943 PDR

Date Sample was collected: 2-6-03

Date Sample was analyzed: 2-11-03

Instrument #1 Background 4655cpm

Instrument #2 Background 4851cpm

Count rate of Empty Pan: Beta ~~84cpm~~ 99cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 0-6                      | 5900                                                      | 1245                              | 7231                                                  | 2380                          | 639                                | 540 •    |
| 6-12                     | 5600                                                      | 945                               | 5587                                                  | 736                           | 269                                | 170 •    |
| 12-18                    | 5000                                                      | 345                               | 4951                                                  | 100                           | 152                                | 53       |
| 18-24                    | 5400                                                      | 745                               | 5122                                                  | 271                           | 138                                | 39       |
| 24-30                    | 5000                                                      | 345                               | 4822                                                  | -29                           | 166                                | 67       |
| 30-36                    | 5600                                                      | 945                               | 5209                                                  | 358                           | 129                                | 30       |
| 36-42                    | 4700                                                      | 45                                | 4930                                                  | 79                            | 150                                | 151      |
| 42-48                    | N/A                                                       | N/A                               | N/A                                                   | N/A                           | N/A                                | N/A      |
| 48-54                    | 4800                                                      | 145                               | 5277                                                  | 426                           | 172                                | 73 •     |
| 54-60                    | 4800                                                      | 145                               | 5168                                                  | 317                           | 150                                | 51       |
| 60-66                    | 5100                                                      | 445                               | 5321                                                  | 470                           | 159                                | 60       |
| 66-72                    | N/A                                                       | N/A                               | N/A                                                   | N/A                           | N/A                                | N/A      |

| HTRW DRILLING LOG                                                                                                          |  | DISTRICT                                            | St. Louis |                                   | HOLE NUMBER                                                         | SLD 72947 AC            |  |
|----------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------|-----------|-----------------------------------|---------------------------------------------------------------------|-------------------------|--|
| 1. COMPANY NAME<br>Shaw E & I                                                                                              |  | 2. DRILLING SUBCONTRACTOR<br>MES, Inc.              |           |                                   | SHEET                                                               | 1 OF 2                  |  |
| 3. PROJECT<br>FUSRAP/SLDS                                                                                                  |  | 4. LOCATION<br>PSC Metals North Tract V.P.          |           |                                   | 5. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120            |                         |  |
| 6. NAME OF DRILLER<br>Chris Anthony                                                                                        |  | 7. HOLE LOCATION<br>See location sketch             |           |                                   | 8. SURFACE ELEVATION<br>N/A                                         |                         |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using P44 HSA and<br>3" x 2" split spoon.       |  | 10. DATE STARTED<br>2-11-93                         |           |                                   | 11. DATE COMPLETED<br>2-11-93                                       |                         |  |
| 12. OVERBURDEN THICKNESS<br>N/A                                                                                            |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br>N/A            |           |                                   | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A |                         |  |
| 13. DEPTH DRILLED INTO ROCK<br>N/A                                                                                         |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A |           |                                   | 14. TOTAL DEPTH OF HOLE<br>6.0 FT BGS                               |                         |  |
| 18. GEOTECHNICAL SAMPLES                                                                                                   |  | 19. TOTAL NUMBER OF CORE BOXES                      |           | 20. SAMPLES FOR CHEMICAL ANALYSIS |                                                                     |                         |  |
| DISTURBED                                                                                                                  |  | UNDISTURBED                                         |           | KDC                               |                                                                     | METALS                  |  |
| OTHER (SPECIFY)                                                                                                            |  | OTHER (SPECIFY)                                     |           | OTHER (SPECIFY)                   |                                                                     | OTHER (SPECIFY)         |  |
| 21. TOTAL CORE RECOVERY                                                                                                    |  | 22. DISPOSITION OF HOLE                             |           | 23. SIGNATURE OF INSPECTOR        |                                                                     | 24. SCALE: Not to Scale |  |
| Yes                                                                                                                        |  | N/A                                                 |           | N/A                               |                                                                     | Phillip M. Stalter      |  |
| LOCATION SKETCH/COMMENTS Witnessed by: Phillip Stalter                                                                     |  |                                                     |           |                                   |                                                                     |                         |  |
| <p>Bremen St.</p> <p>fence</p> <p>24'</p> <p>SLD 72947 AC</p> <p>HTZ 66218</p> <p>SLD 72951</p> <p>HTZ 66256</p> <p>N</p>  |  |                                                     |           |                                   |                                                                     |                         |  |
| <p>Trace - &lt; 5 %</p> <p>Few - 5 - 10 %</p> <p>Little - 15 - 25 %</p> <p>Some - 20 - 35 %</p> <p>Mostly - 50 - 100 %</p> |  |                                                     |           |                                   |                                                                     |                         |  |
| PROJECT                                                                                                                    |  | FUSRAP/SLDS                                         |           |                                   | HOLE NO.                                                            |                         |  |
|                                                                                                                            |  |                                                     |           |                                   | SLD 72947 AC                                                        |                         |  |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                           |                   |              |                 |                      |                                                                                                                                                                 | SLP 72947 RC |  |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------|--------------|-----------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--|
| PROJECT                                |                                                                                                                           | INSPECTOR         |              | SHEET           |                      | SHEETS                                                                                                                                                          |              |  |
| FUSRAP / SLDs                          |                                                                                                                           | Phillip Statler   |              | 2 of 2          |                      |                                                                                                                                                                 |              |  |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                                                                  | WATER CONTENT (%) | RECOVERY (%) | GRAIN SIZE (mm) | MOISTURE CONTENT (%) | REMARKS                                                                                                                                                         |              |  |
| SM<br>1.0                              | Silty fine sand w/ few med. gravel, loose, poorly graded, dk. brn. to blk, dry, few cinders, few slag, trace brick frags. | 7500<br>0.0       | 1.9          | 2.0-2.5<br>1600 | 4                    | SLP 72947-1-2                                                                                                                                                   |              |  |
|                                        |                                                                                                                           | 7600<br>0.0       | 2.0          | 2.5-3.0<br>1603 | 4                    |                                                                                                                                                                 |              |  |
|                                        |                                                                                                                           | 7600<br>0.0       | 2.0          | 3.0-3.5<br>1605 | 4                    | SLP 72948 1605                                                                                                                                                  |              |  |
|                                        |                                                                                                                           | 7600<br>0.0       | 2.0          | 3.5-4.0<br>1607 | 2                    |                                                                                                                                                                 |              |  |
| CL<br>2.0<br>3.0<br>4.0<br>5.0<br>6.0  | Silty clay, med. stiff to stiff, med. plastic, lt. brn. to lt. grv, dry.                                                  | 7600<br>0.0       | 1.7          | 2.0-2.5<br>1610 | 3                    | SLP 72948 1610                                                                                                                                                  |              |  |
|                                        |                                                                                                                           | 6700<br>0.0       | 2.0          | 2.5-3.0<br>1612 | 6                    |                                                                                                                                                                 |              |  |
|                                        |                                                                                                                           | 6500<br>0.0       |              | 3.0-3.5<br>1615 | 7                    | SLP 72949 1615                                                                                                                                                  |              |  |
|                                        |                                                                                                                           | 6500<br>0.0       |              | 3.5-4.0<br>1617 | 11                   | (1617)                                                                                                                                                          |              |  |
|                                        |                                                                                                                           | 7400<br>0.0       | 1.9          | 4.0-4.5<br>1550 | 4                    |                                                                                                                                                                 |              |  |
|                                        |                                                                                                                           | 7000<br>0.0       | 2.0          | 4.5-5.0<br>1553 | 7                    |                                                                                                                                                                 |              |  |
|                                        |                                                                                                                           | 7400<br>0.0       |              | 5.0-5.5<br>1555 | 10                   | SLP 72950 1555                                                                                                                                                  |              |  |
|                                        |                                                                                                                           | 7500<br>0.0       |              | 5.5-6.0<br>1557 | 13                   |                                                                                                                                                                 |              |  |
|                                        |                                                                                                                           |                   |              |                 |                      |                                                                                                                                                                 |              |  |
|                                        |                                                                                                                           |                   |              |                 |                      |                                                                                                                                                                 |              |  |
| TD: 6.0' BGS<br>2-11-03<br>1600        |                                                                                                                           |                   |              |                 |                      | Background:<br>Nat: 6833<br>PID: 0.0<br>Backfilled boring w/ 3.0 bags of bentonite chips.<br>Samples will be counted w/ gas proportional meter (See att. sheet) |              |  |
|                                        |                                                                                                                           |                   |              |                 |                      |                                                                                                                                                                 |              |  |
|                                        |                                                                                                                           |                   |              |                 |                      |                                                                                                                                                                 |              |  |
|                                        |                                                                                                                           |                   |              |                 |                      |                                                                                                                                                                 |              |  |
| 7.0                                    |                                                                                                                           |                   |              |                 |                      |                                                                                                                                                                 |              |  |
| 8.0                                    |                                                                                                                           |                   |              |                 |                      |                                                                                                                                                                 |              |  |
| 9.0                                    |                                                                                                                           |                   |              |                 |                      |                                                                                                                                                                 |              |  |
| 10.0                                   |                                                                                                                           |                   |              |                 |                      |                                                                                                                                                                 |              |  |

RADIOLOGICAL SURVEY FORM

Sample ID SLD 72947 QC

Date Sample was collected: 2-11-03

Date Sample was analyzed: 2-12-03

Instrument #1 Background 6833 cpm

Instrument #2 Background 4500 cpm

Count rate of Empty Pan: Beta 100 cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 0-6                      | 7500                                                      | 667                               | 6061                                                  | 1561                          | 554                                | 454      |
| 6-12                     | 7200                                                      | 367                               | 4775                                                  | 275                           | 181                                | 81       |
| 12-18                    | 7600                                                      | 767                               | 5071                                                  | 571                           | 385                                | 285      |
| 18-24                    | 7400                                                      | 567                               | 4801                                                  | 301                           | 220                                | 120      |
| 24-30                    | 6300                                                      | -533                              | 4982                                                  | 482                           | 282                                | 182      |
| 30-36                    | 6700                                                      | -133                              | 4609                                                  | 109                           | 145                                | 45       |
| 36-42                    | 6500                                                      | -333                              | 4740                                                  | 240                           | 135                                | 35       |
| 42-48                    | 6500                                                      | -333                              | 4509                                                  | 9                             | 144                                | 44       |
| 48-54                    | 7400                                                      | 567                               | 4778                                                  | 278                           | 210                                | 110      |
| 54-60                    | 7000                                                      | 167                               | 4550                                                  | 50                            | 152                                | 52       |
| 60-66                    | 7400                                                      | 567                               | 4565                                                  | 65                            | 147                                | 47       |
| 66-72                    | 7500                                                      | 667                               | 4488                                                  | -12                           | 162                                | 62       |

SLD 72947, -1, -2

SLD 72948

SLD 72947 QC  
archive

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SLD P.S.

SLD 72949

SLD 72950

285 2-12-02

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                        |                                                                     | DISTRICT<br>St. Louis    | MOLE NUMBER<br>SLD 72947 QC |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------|---------------------------------------------------------------------|--------------------------|-----------------------------|
| 1. COMPANY NAME<br>Shaw E & I                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | 2. DRILLING SUBCONTRACTOR<br>MES, Inc. |                                                                     | SHEET 1 OF 2             |                             |
| 3. PROJECT<br>FUSRAP/SLDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                        | 4. LOCATION<br>PSC Metals North Tract V.P.                          |                          |                             |
| 5. NAME OF DRILLER<br>Chris Anthony                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                        | 6. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120            |                          |                             |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using HSA and<br>P.S. 5" x 2" split spoon.                                                                                                                                                                                                                                                                                                                                                                              |  |                                        | 8. HOLE LOCATION<br>See location sketch                             |                          |                             |
| 9. SURFACE ELEVATION<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                        | 10. DATE STARTED<br>2-11-03                                         |                          |                             |
| 11. DATE COMPLETED<br>2-11-03                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                        | 12. OVERBURDEN THICKNESS<br>N/A                                     |                          |                             |
| 13. DEPTH DRILLED INTO ROCK<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                        | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A |                          |                             |
| 15. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                        | 16. TOTAL DEPTH OF HOLE<br>0.5 FT BGS                               |                          |                             |
| 17. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | 18. DISTURBED                          |                                                                     | 19. UNDISTURBED          |                             |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | VOC                                    |                                                                     | METALS                   |                             |
| 21. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | BACKFILLED                             |                                                                     | MONITORING WELL          |                             |
| 22. TOTAL CORE RECOVERY                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | Yes                                    |                                                                     | N/A                      |                             |
| 23. SIGNATURE OF INSPECTOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | N/A                                    |                                                                     | N/A                      |                             |
| <div style="display: flex; justify-content: space-between;"> <div> <p>LOCATION SKETCH/COMMENTS</p> <p>Bremers St.</p> <p>fence</p> <p>24'</p> <p>HTZ 66213</p> <p>SLD 72947 QC</p> <p>SLD 72947 QC (b)</p> <p>SLD 72951</p> <p>HTZ 66256</p> </div> <div> <p>Witnessed by: Phillip Stadler</p> <p>SCALE: Not to Scale</p> <p>Terms used to describe %</p> <p>Trace - &lt; 5 %</p> <p>Few - 5 - 10 %</p> <p>Little - 15 - 25 %</p> <p>Some - 20 - 35 %</p> <p>Mostly - 50 - 100 %</p> </div> </div> |  |                                        |                                                                     |                          |                             |
| PROJECT<br>FUSRAP/SLDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                        |                                                                     | MOLE NO.<br>SLD 72947 QC |                             |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                              |                           |                 |                                   |            | FILE NO. 72947 QC(b)                                                                              |
|----------------------------------------|----------------------------------------------------------------------------------------------|---------------------------|-----------------|-----------------------------------|------------|---------------------------------------------------------------------------------------------------|
| PROJECT FUSRAP/SLDS                    |                                                                                              | INSPECTOR Phillip Statler |                 | SHEET 2 of 2                      |            |                                                                                                   |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                                     | DEPTH (ft)                | RECOVERY (%)    | ANALYTICAL CHARGE NO.             | BLOW COUNT | REMARKS                                                                                           |
| SM                                     | slty. fine sand w/ some maf. gravel, loose, poorly graded, dk. brn. to blk., dry, fine airt. | 7100<br>0.0               | RECOVERY<br>0.5 | 0.0-0.5<br>1617                   | N/A        | dug w/hand<br>frowl.                                                                              |
| 1.0                                    | TD: 0.5' B65<br>2-11-03<br>1617                                                              |                           |                 | SLD<br>72947<br>2-11-03<br>(1617) |            | Back grounds<br>Nat: 6833<br>PID: 0.0<br>Backfilled<br>boring w/<br>native soil.                  |
| 2.0                                    |                                                                                              |                           |                 |                                   |            | * Sample<br>will be<br>counted using<br>gas propor-<br>tional meter.<br>(See att-<br>ached sheet) |
| 3.0                                    |                                                                                              |                           |                 |                                   |            | Sample<br>collected<br>to ensure<br>sufficient<br>volume in<br>QC sample                          |
| 4.0                                    |                                                                                              |                           |                 |                                   |            |                                                                                                   |
| 5.0                                    |                                                                                              |                           |                 |                                   |            |                                                                                                   |
| 6.0                                    |                                                                                              |                           |                 |                                   |            |                                                                                                   |
| 7.0                                    |                                                                                              |                           |                 |                                   |            |                                                                                                   |
| 8.0                                    |                                                                                              |                           |                 |                                   |            |                                                                                                   |
| 9.0                                    |                                                                                              |                           |                 |                                   |            |                                                                                                   |
| 10.0                                   |                                                                                              |                           |                 |                                   |            |                                                                                                   |



RADIOLOGICAL SURVEY FORM

Sample ID SLD72947 QC (b)

Date Sample was collected: 2-11-03

Date Sample was analyzed: 2-12-03

Instrument #1 Background 6833 cpm

Instrument #2 Background 4500 cpm

Count rate of Empty Pan: Beta 100 cpm

| Sample Depth<br>(Inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 0-6                      | 7100                                                      | 267                               | 5022                                                  | 522                           | 225                                | 125      |
| 6-12                     |                                                           |                                   |                                                       |                               |                                    |          |
| 12-18                    |                                                           |                                   |                                                       |                               |                                    |          |
| 18-24                    |                                                           |                                   |                                                       |                               |                                    |          |
| 24-30                    |                                                           |                                   |                                                       |                               |                                    |          |
| 30-36                    |                                                           |                                   |                                                       |                               |                                    |          |
| 36-42                    |                                                           |                                   |                                                       |                               |                                    |          |
| 42-48                    |                                                           |                                   |                                                       |                               |                                    |          |
| 48-54                    |                                                           |                                   |                                                       |                               |                                    |          |
| 54-60                    |                                                           |                                   |                                                       |                               |                                    |          |
| 60-66                    |                                                           |                                   |                                                       |                               |                                    |          |
| 66-72                    |                                                           |                                   |                                                       |                               |                                    |          |

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                               |                                                                            | DISTRICT<br>St. Louis      | HOLE NUMBER<br>SLD 72951 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------|----------------------------------------------------------------------------|----------------------------|--------------------------|
| 1. COMPANY NAME<br><b>Shaw E &amp; I</b>                                                                                                                                                                                                                                                                                                                                                                                                                        |  | 2. DRILLING SUBCONTRACTOR<br><b>MES, Inc.</b> |                                                                            | SHEET <b>1</b> OF <b>1</b> |                          |
| 3. PROJECT<br><b>FUSRAP/SLDS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                               | 4. LOCATION<br><b>PSC Metals North Tract V.P.</b>                          |                            |                          |
| 5. NAME OF DRILLER<br><b>Chris Anthony</b>                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                               | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><b>Diedrich D-120</b>            |                            |                          |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><b>Diedrich D-120<br/>using HSA and<br/>3" x 2" split spear.</b>                                                                                                                                                                                                                                                                                                                                       |  |                                               | 8. HOLE LOCATION<br><b>See location sketch</b>                             |                            |                          |
| 9. SURFACE ELEVATION<br><b>PID phone NAT LUD 172040<br/>Cal. Date: 4-11-03 Bkg: 7475</b>                                                                                                                                                                                                                                                                                                                                                                        |  |                                               | 10. DATE STARTED<br><b>2-5-03</b>                                          |                            |                          |
| 11. DATE COMPLETED                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                               | 12. OVERBURDEN THICKNESS<br><b>N/A</b>                                     |                            |                          |
| 13. DEPTH DRILLED INTO ROCK<br><b>N/A</b>                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                               | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><b>N/A</b> |                            |                          |
| 15. TOTAL DEPTH OF HOLE<br><b>FT BGS</b>                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                               | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><b>N/A</b>                 |                            |                          |
| 17. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | 18. TOTAL NUMBER OF CORE BOXES                |                                                                            | 19. TOTAL CORE RECOVERY %  |                          |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 21. DISPOSITION OF HOLE                       |                                                                            | 22. SIGNATURE OF INSPECTOR |                          |
| 23. DISTURBED                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | 24. UNDISTURBED                               |                                                                            | 25. OTHER (SPECIFY)        |                          |
| 26. VOC                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | 27. METALS                                    |                                                                            | 28. OTHER (SPECIFY)        |                          |
| 29. RAD                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | 30. OTHER (SPECIFY)                           |                                                                            | 31. OTHER (SPECIFY)        |                          |
| 32. YES                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | 33. N/A                                       |                                                                            | 34. N/A                    |                          |
| <div style="display: flex; justify-content: space-between;"> <div> <p>LOCATION SKETCH/COMMENTS Witnessed by:</p> <p><b>Bremner</b></p> <p><b>4 HFE 66213</b></p> <p><b>24-4 SLD 72951</b></p> <p><b>North Bldg</b></p> <p><b>Log Southern Bldg</b></p> </div> <div> <p>SCALE: Not to Scale</p> <p>Terms used to describe %</p> <p>Trace - &lt; 5 %</p> <p>Few - 5-10 %</p> <p>Little - 15-25 %</p> <p>Some - 20-35 %</p> <p>Mostly - 50-100 %</p> </div> </div> |  |                                               |                                                                            |                            |                          |
| PROJECT<br><b>FUSRAP/SLDS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                               | HOLE NO.<br><b>PSC Metals N. Tract 1</b>                                   |                            | SLD 72951                |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                     |                           |                  |                  |                  |                  | WELL NUMBER<br>5L0 72951 |  |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------|------------------|------------------|------------------|------------------|--------------------------|--|
| PROJECT<br>FUSRAP / 5LDS               |                                                                                                                     | OPERATOR<br>Mark Cummings |                  |                  | SHEET<br>2       |                  |                          |  |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS<br>(ft)                                                                                    | WELL LOG<br>(ft)          | RECOVERY<br>(ft) | WELL LOG<br>(ft) | WELL LOG<br>(ft) | WELL LOG<br>(ft) | WELL LOG<br>(ft)         |  |
| GM                                     | Gravel w/ few Silty, Fine to Coarse, Loose to Med Dense, Poorly Sorted, Dark, Dry                                   | 71600                     | RECOVERY         | 40-5             | 13               | 5L0 72951        | * Samples                |  |
| SM                                     | Silty Sand, Fine to Med, Loose, Partly Gravel, Dark Brown to Blk, Dry, True Clay, True Few Brick Frag, Few Cinders. | 71600                     | 1.8<br>2.0       | 1600             | 10               | 5L0 72951        | Will be                  |  |
|                                        |                                                                                                                     | 71500                     |                  | 1600             | 6                | 5L0 72951        | Counted                  |  |
|                                        |                                                                                                                     | 71000                     |                  | 1600             | 7                | 5L0 72951        | w/ Gas                   |  |
|                                        |                                                                                                                     | 6100                      | No Recovery      | 1600             | 4                | 5L0 72951        | Proportional             |  |
|                                        |                                                                                                                     | 71100                     | 1.8<br>2.0       | 1615             | 6                | 5L0 72951        | Detector.                |  |
|                                        |                                                                                                                     | 6200                      |                  | 1615             | 4                | 5L0 72951        | See                      |  |
|                                        |                                                                                                                     | 6600                      |                  | 1615             | 8                | 5L0 72951        | Attache                  |  |
|                                        |                                                                                                                     | 71100                     | No Recovery      | 1615             | 5                | 5L0 72951        | Results                  |  |
|                                        |                                                                                                                     | 6900                      | 2.0              | 1545             | 7                | 5L0 72951        | Sheet.                   |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             | 8                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6200                      | 0.0              | 1545             | 11               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 71100                     | 2.0              | 1545             | 15               | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6900                      | 0.0              | 1545             | 7                | 5L0 72951        |                          |  |
|                                        |                                                                                                                     | 6500                      | 0.0              | 1545             |                  |                  |                          |  |

RADIOLOGICAL SURVEY FORM

Sample ID SLD 72951 PDI

Date Sample was collected: 2-5-03

Date Sample was analyzed: 2-6-03

Instrument #1 Background 7475 cpm

Instrument #2 Background 4864 cpm

Count rate of Empty Pan: Beta 98 cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Countrate in cpm |           |                      |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|-----------------------------------|-----------|----------------------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                        | Net Beta  |                      |
| 0-6                      | 7000                                                      | -475                              | 4728                                                  | -136                          | 121                               | 23        | SLD 72951            |
| 6-12                     | 7600                                                      | 125                               | 5757                                                  | 893                           | 333                               | 235       | SLD 72951<br>Archive |
| 12-18                    | 7500                                                      | 25                                | 5883                                                  | 1019                          | 553                               | 435       | SLD 72952            |
| 18-24                    | 7000                                                      | -475                              | 5116                                                  | 252                           | 278                               | 180       | SLD 72951<br>Archive |
| 24-30                    | 6100                                                      | -1375                             | 4839                                                  | -25                           | 305                               | 207       | SLD 72953            |
| 30-36                    | 7100                                                      | -375                              | 4920                                                  | 56                            | 191                               | 93        | SLD 72951<br>Archive |
| 36-42                    | 6700                                                      | -775                              | 4849                                                  | -15                           | 161                               | 63        |                      |
| 42-48                    | 6600                                                      | -875                              | 4926                                                  | 62                            | 171                               | 73        |                      |
| 48-54                    | 7100                                                      | -375                              | 5356                                                  | 492                           | 260                               | 162       | SLD 72954            |
| 54-60                    | 6900                                                      | -575                              | 4920                                                  | 56                            | 161                               | 63        | SLD 72951<br>Archive |
| 60-66                    | 6500                                                      | -975                              | 5355                                                  | 491                           | 144                               | 46        |                      |
| 66-72                    | N/A                                                       | N/A                               | N/A                                                   | N/A                           | 2408<br>N/A 182                   | 84<br>N/A |                      |

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |                                               | DISTRICT <b>St. Louis</b>                                                                                                                                            |  | HOLE NUMBER <b>SLD 72955</b> |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------|--|
| 1. COMPANY NAME<br><b>Shaw E &amp; I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  | 2. DRILLING SUBCONTRACTOR<br><b>MES, Inc.</b> |                                                                                                                                                                      |  | SHEET <b>1</b> OF <b>2</b>   |  |
| 3. PROJECT<br><b>FUSRAP/SLDS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |                                               | 4. LOCATION<br><b>PSC Metals North Tract V.P.</b>                                                                                                                    |  |                              |  |
| 5. NAME OF DRILLER<br><b>Chris Anthony</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |                                               | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><b>Diedrich D-120</b>                                                                                                      |  |                              |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><b>Diedrich D-120<br/>using 4 1/4" HSA and<br/>3" X 2" split spoon.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |                                               | 8. HOLE LOCATION<br><b>See location sketch</b>                                                                                                                       |  |                              |  |
| 9. SURFACE ELEVATION<br><b>N/A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |                                               | 10. DATE STARTED<br><b>3-4-03</b>                                                                                                                                    |  |                              |  |
| 11. DATE COMPLETED<br><b>3-4-03</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |                                               | 12. OVERBURDEN THICKNESS<br><b>N/A</b>                                                                                                                               |  |                              |  |
| 13. DEPTH DRILLED INTO ROCK<br><b>N/A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |                                               | 15. DEPTH GROUNDWATER ENCOUNTERED<br><b>N/A</b>                                                                                                                      |  |                              |  |
| 14. TOTAL DEPTH OF HOLE<br><b>6.0 FT BGS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |                                               | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><b>N/A</b>                                                                                           |  |                              |  |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><b>N/A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |                                               | 18. GEOTECHNICAL SAMPLES                                                                                                                                             |  |                              |  |
| <div style="display: flex; justify-content: space-between;"> <span>18. DISTURBED <input checked="" type="checkbox"/></span> <span>18. UNDISTURBED <input checked="" type="checkbox"/></span> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |                                               | 19. TOTAL NUMBER OF CONE BOXES<br><b>0</b>                                                                                                                           |  |                              |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |                                               | 21. TOTAL CONE RECOVERY                                                                                                                                              |  |                              |  |
| <div style="display: flex; justify-content: space-between;"> <span>YES <input checked="" type="checkbox"/></span> <span>NO <input checked="" type="checkbox"/></span> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |                                               | <div style="display: flex; justify-content: space-between;"> <span>RETAILS <input checked="" type="checkbox"/></span> <span>OTHER (SPECIFY) <b>RAD</b></span> </div> |  |                              |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |                                               | 23. SIGNATURE OF INSPECTOR                                                                                                                                           |  |                              |  |
| <div style="display: flex; justify-content: space-between;"> <span>BACKFILLED <input checked="" type="checkbox"/></span> <span>MONITORING WELL <input checked="" type="checkbox"/></span> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |                                               | <div style="display: flex; justify-content: space-between;"> <span>OTHER (SPECIFY) <b>N/A</b></span> <span><b>Philip Statter</b></span> </div>                       |  |                              |  |
| <div style="display: flex; justify-content: space-between;"> <span>LOCATION SKETCH/COMMENTS</span> <span>Witnessed by: <b>Philip Statter</b></span> <span>SCALE: <b>Not to Scale</b></span> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |                                               |                                                                                                                                                                      |  |                              |  |
| <div style="display: flex;"> <div style="flex: 1;"> <p style="text-align: center;">↑ <b>Bremen Ave.</b></p> <p style="text-align: center;">N</p> <p style="text-align: center;">fence</p> <p style="text-align: center;">SLD 72947</p> <p style="text-align: center;">ATZ 66213</p> <p style="text-align: center;">SLD 72951</p> <p style="text-align: center;">SLD 72955</p> </div> <div style="flex: 1; border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Terms used to describe %</p> <p>Trace - &lt; 5 %</p> <p>Few - 5 - 10 %</p> <p>Little - 15 - 25 %</p> <p>Some - 20 - 35 %</p> <p>Mostly - 50 - 100 %</p> </div> </div> |  |  |                                               |                                                                                                                                                                      |  |                              |  |
| PROJECT <b>FUSRAP/SLDS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |                                               |                                                                                                                                                                      |  | HOLE NO. <b>SLD 72955</b>    |  |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                                   |                        |                     |                                      |                        |                                                                                                                                                                                                  | SLB 72955 |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------|--------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| PROJECT                                |                                                                                                                                   | LOCATION               |                     | DATE                                 |                        | SHEET                                                                                                                                                                                            |           |
| FUSRAP / SLDS                          |                                                                                                                                   | Phillip Statler        |                     | 2                                    |                        | 2                                                                                                                                                                                                |           |
| DEPTH<br>FEET                          | DESCRIPTION OF MATERIALS                                                                                                          | WATER<br>DEPTH<br>FEET | RECOVERY<br>PERCENT | WATER<br>TEMPERATURE<br>DEGREES<br>F | WATER<br>COUNT<br>FEET | SLB                                                                                                                                                                                              |           |
| 1.0                                    | silty clay w/ some fine sand, stiff, med. plastic, dk. brn. to silty dr, few cinders, few slag, few brick frags, few med. gravel, | 6200<br>0.0            | 1.7 / 2.0           | 0.0-0.5<br>9-9.5<br>1015             | 17                     | SLB 72955<br>9-9.5<br>1015                                                                                                                                                                       |           |
|                                        |                                                                                                                                   | 6000<br>0.0            |                     | 0.5-1.0<br>1020                      | 15                     |                                                                                                                                                                                                  |           |
|                                        |                                                                                                                                   | 6100<br>0.0            |                     | 1.0-1.5<br>1025                      | 10                     | SLB 72956<br>1025<br>(1025)                                                                                                                                                                      |           |
| 2.0                                    |                                                                                                                                   | 5800<br>0.0            | no recovery         | 1.5-1.7                              | 9                      |                                                                                                                                                                                                  |           |
|                                        |                                                                                                                                   | 5700<br>0.0            |                     | 2.0-2.5<br>1025                      | 6                      |                                                                                                                                                                                                  |           |
|                                        | CL clay turning to grey, debris and sand absent.                                                                                  | 5500<br>0.0            | 1.6 / 2.0           | 2.5-3.0<br>1040                      | 5                      | SLB 72957<br>1040                                                                                                                                                                                |           |
| 3.0                                    |                                                                                                                                   | 6000<br>0.0            |                     | 3.0-3.4<br>1045                      | 7                      |                                                                                                                                                                                                  |           |
|                                        |                                                                                                                                   | 5900<br>0.0            | no recovery         |                                      | 11                     |                                                                                                                                                                                                  |           |
| 4.0                                    |                                                                                                                                   | 5900<br>0.0            |                     | 4.0-4.5<br>1050                      | 4                      |                                                                                                                                                                                                  |           |
|                                        |                                                                                                                                   | 6200<br>0.0            | 1.8 / 2.0           | 4.5-5.0<br>1053                      | 8                      | SLB 72958<br>1053                                                                                                                                                                                |           |
| 5.0                                    |                                                                                                                                   | 6200<br>0.0            |                     | 5.0-5.5<br>1055                      | 8                      |                                                                                                                                                                                                  |           |
|                                        |                                                                                                                                   | 5800<br>0.0            | no recovery         | 5.5-5.8<br>1100                      | 11                     |                                                                                                                                                                                                  |           |
| 6.0                                    |                                                                                                                                   |                        |                     |                                      |                        |                                                                                                                                                                                                  |           |
| 7.0                                    |                                                                                                                                   |                        |                     |                                      |                        |                                                                                                                                                                                                  |           |
| 8.0                                    |                                                                                                                                   |                        |                     |                                      |                        |                                                                                                                                                                                                  |           |
| 9.0                                    |                                                                                                                                   |                        |                     |                                      |                        |                                                                                                                                                                                                  |           |
| 10.0                                   |                                                                                                                                   |                        |                     |                                      |                        |                                                                                                                                                                                                  |           |
| TD: 6.0' BG5<br>3-4-03<br>1050         |                                                                                                                                   |                        |                     |                                      |                        | Background:<br>WAT: 5844<br>PTD: 0.0<br>Backfilled<br>boring w/<br>3.0 bags of<br>bestonite<br>chips.<br>Samples will<br>be counted w/<br>gas proportion<br>at meter.<br>(See attached<br>sheet) |           |
| PROJECT FUSRAP / SLDS                  |                                                                                                                                   |                        |                     |                                      |                        | SHEET NO. SLB 72955                                                                                                                                                                              |           |

RADIOLOGICAL SURVEY FORM

Sample ID SLD 72955

Date Sample was collected: 3-4-03

Date Sample was analyzed: 3-4-03

Instrument #1 Background 5844 cpm

Instrument #2 Background 4226 cpm

Count rate of Empty Pan: Beta 90 cpm

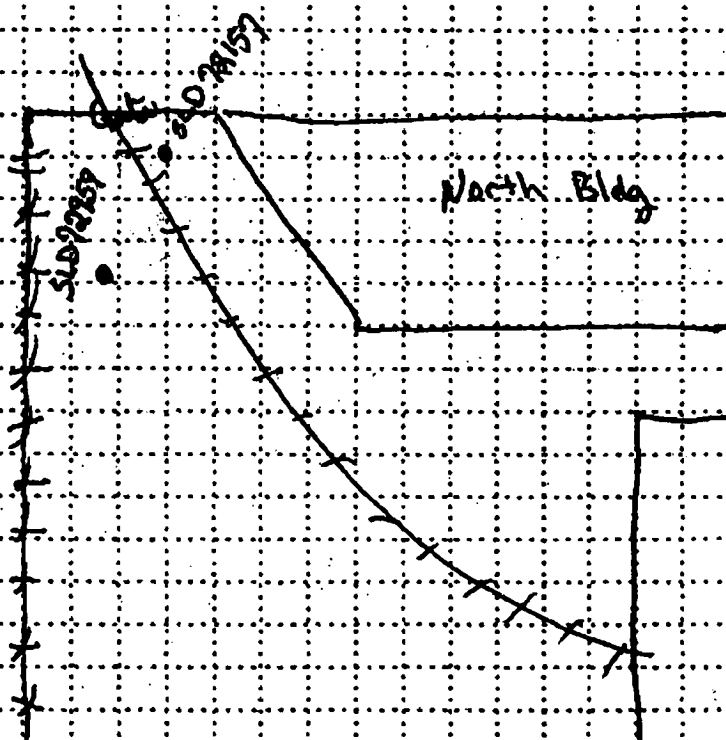
| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 0-6                      | 6200                                                      | 356                               | 4127                                                  | -99                           | 116                                | 26       |
| 6-12                     | 6000                                                      | 156                               | 4859                                                  | 633                           | 203                                | 113      |
| 12-18                    | 6100                                                      | 256                               | 4695                                                  | 469                           | 241                                | 151      |
| 18-24                    | 5800                                                      | -44                               | 4378                                                  | 152                           | 176                                | 86       |
| 24-30                    | 5700                                                      | -144                              | 4266                                                  | 40                            | 147                                | 57       |
| 30-36                    | 5500                                                      | -344                              | 4391                                                  | 165                           | 172                                | 82       |
| 36-42                    | 6000                                                      | 156                               | 4421                                                  | 195                           | 139                                | 49       |
| 42-48                    | N/A                                                       | N/A                               | N/A                                                   | N/A                           | N/A                                | N/A      |
| 48-54                    | 5900                                                      | 56                                | 4427                                                  | 201                           | 158                                | 68       |
| 54-60                    | 6200                                                      | 356                               | 4510                                                  | 284                           | 196                                | 106      |
| 60-66                    | 6300                                                      | 456                               | 4369                                                  | 143                           | 173                                | 83       |
| 66-72                    | 5800                                                      | -44                               | 4335                                                  | 109                           | 164                                | 74       |

SLD 72955

SLD 72956

SLD 72957

SLD 72958

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                        | DISTRICT<br>St. Louis                                               | HOLE NUMBER<br>SLD 72959 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------|---------------------------------------------------------------------|--------------------------|
| 1. COMPANY NAME<br>Shaw E & I                                                                                                                                                                                                                                                                                                                                                                                          |  | 2. DRILLING SUBCONTRACTOR<br>MES, Inc. |                                                                     | SHEET 1 of 2             |
| 3. PROJECT<br>FUSRAP/SLDS                                                                                                                                                                                                                                                                                                                                                                                              |  |                                        | 4. LOCATION<br>PSC Metals North Tract V.P.                          |                          |
| 5. NAME OF DRILLER<br>Chris Anthony                                                                                                                                                                                                                                                                                                                                                                                    |  |                                        | 6. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120            |                          |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>Using 4 1/2" HSA and<br>3" x 2" Split Spear.                                                                                                                                                                                                                                                                                                |  |                                        | 8. HOLE LOCATION<br>See location sketch                             |                          |
| 9. SURFACE ELEVATION                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                        | 10. DATE STARTED<br>2-5-03                                          |                          |
| 11. DATE COMPLETED<br>2-5-03                                                                                                                                                                                                                                                                                                                                                                                           |  |                                        | 12. OVERBURDEN THICKNESS<br>N/A                                     |                          |
| 13. DEPTH DRILLED INTO ROCK<br>N/A                                                                                                                                                                                                                                                                                                                                                                                     |  |                                        | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A |                          |
| 15. TOTAL DEPTH OF HOLE<br>6 bgs FT BGS                                                                                                                                                                                                                                                                                                                                                                                |  |                                        | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                 |                          |
| 17. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                               |  |                                        |                                                                     |                          |
| 18. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                      |  |                                        |                                                                     |                          |
| 19. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                |  |                                        |                                                                     |                          |
| 20. TOTAL NUMBER OF CORE BOXES                                                                                                                                                                                                                                                                                                                                                                                         |  |                                        |                                                                     |                          |
| 21. TOTAL CORE RECOVERY %                                                                                                                                                                                                                                                                                                                                                                                              |  |                                        |                                                                     |                          |
| 22. SIGNATURE OF INSPECTOR                                                                                                                                                                                                                                                                                                                                                                                             |  |                                        |                                                                     |                          |
| <div style="display: flex; justify-content: space-between;"> <div> <p>LOCATION SKETCH/COMMENTS Witnessed by:</p>  </div> <div> <p>SCALE: Not to Scale</p> <p>Terms used to describe %</p> <p>Trace - &lt; 5 %</p> <p>Few - 5 - 10 %</p> <p>Little - 15 - 25 %</p> <p>Some - 20 - 35 %</p> <p>Mostly - 50 - 100 %</p> </div> </div> |  |                                        |                                                                     |                          |
| PROJECT<br>FUSRAP/SLDS                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                        | HOLE NO.<br>PSC Metals N. Tract 1                                   |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                        | SLD 72959                                                           |                          |



| HTRW DRILLING LOG (CONTINUATION SHEET) |                 |                                                                                |             |                                 |                |                      | WELL NUMBER<br>SLD 72959                                                                                                                      |
|----------------------------------------|-----------------|--------------------------------------------------------------------------------|-------------|---------------------------------|----------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| PROJECT<br>FUSRAP / SLDs               |                 | INSPECTOR<br>Mark Cummings                                                     |             | DATE<br>2-2-2                   |                | SHEET NO.<br>2       |                                                                                                                                               |
| DEPTH<br>FEET                          | DEPTH<br>METERS | DESCRIPTION OF MATERIALS                                                       | LOG<br>TIME | RECOVERY<br>IN<br>FEET          | DRIFT<br>COUNT | LOG<br>TIME          | REMARKS                                                                                                                                       |
| SP                                     |                 | Silty Sand w/ fine gravel, coarse<br>medium grained, moist, wet, med<br>size   | 7000<br>0.0 | RECOVERY<br>0-1.5<br>1.6<br>2.0 | 3              | SLD<br>72959<br>1120 | + Samples<br>will be<br>conducted<br>w/ gas<br>Proportion<br>detector.<br>See<br>Attached<br>sheet<br>for Read<br>in Gas<br>Prop.<br>Detector |
| CL                                     | 1.0             | Silty clay, med plus, med fine<br>to soft, Fe, cinders, Drk<br>Gray, 6 ft 8 in | 6600<br>0.0 |                                 | 5              | SLD<br>72960<br>1120 |                                                                                                                                               |
|                                        |                 |                                                                                | 6400<br>0.0 |                                 | 5              | SLD<br>72960<br>1120 |                                                                                                                                               |
|                                        |                 |                                                                                | 6500<br>0.0 | No Recovery                     | 4              | SLD<br>72961<br>1135 |                                                                                                                                               |
| SP                                     | 2.0             | Silty Sand, med, loose<br>Partly Graded, Trace silt, Drk<br>Brown              | 6600<br>0.0 | 2.0<br>2.0                      | 3              | SLD<br>72961<br>1135 |                                                                                                                                               |
| CL                                     | 3.0             | Silty clay, med plus,<br>silt, Trace cinders, Drk<br>Brown to Drk Gray         | 7000<br>0.0 |                                 | 2              | SLD<br>72959<br>1135 |                                                                                                                                               |
|                                        |                 |                                                                                | 6600<br>0.0 |                                 | 4              |                      |                                                                                                                                               |
|                                        | 4.0             |                                                                                | 6300<br>0.0 |                                 | 5              |                      |                                                                                                                                               |
|                                        |                 |                                                                                | 7000<br>0.0 |                                 | 2              | SLD<br>72962<br>1140 |                                                                                                                                               |
|                                        |                 |                                                                                | 7600<br>0.0 |                                 | 4              |                      |                                                                                                                                               |
|                                        | 5.0             |                                                                                | 6000<br>0.0 |                                 | 7              |                      |                                                                                                                                               |
|                                        |                 |                                                                                | 7800<br>0.0 |                                 | 8              | SLD<br>72959<br>1140 | (archive)                                                                                                                                     |
|                                        | 6.0             | TD 6.0' bgs<br>2-5-03<br>1145                                                  |             |                                 |                |                      | Backfilled<br>w/ 3 Bags<br>Bentonite<br>chips                                                                                                 |
|                                        | 7.0             |                                                                                |             |                                 |                |                      |                                                                                                                                               |
|                                        | 8.0             |                                                                                |             |                                 |                |                      |                                                                                                                                               |
|                                        | 9.0             |                                                                                |             |                                 |                |                      |                                                                                                                                               |
|                                        | 10.0            |                                                                                |             |                                 |                |                      |                                                                                                                                               |

**RADIOLOGICAL SURVEY FORM**

Sample ID SLD 72959 PDI

Date Sample was collected: 2-5-03

Date Sample was analyzed: 2-5-03

Instrument #1 Background 7475 cpm

Instrument #2 Background 4346 cpm

Count rate of Empty Pan: Beta 82 cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 0-6                      | 7000                                                      | -475                              | 4854                                                  | 508                           | 141                                | 59       |
| 6-12                     | 6600                                                      | -875                              | 4511                                                  | 165                           | 128                                | 46       |
| 12-18                    | 6400                                                      | -1075                             | 4576                                                  | 230                           | 150                                | 68       |
| 18-24                    | 6500                                                      | -975                              | 4645                                                  | 299                           | 170                                | 88       |
| 24-30                    | 6600                                                      | -875                              | 5024                                                  | 678                           | 176                                | 94       |
| 30-36                    | 7000                                                      | -475                              | 4775                                                  | 429                           | 156                                | 74       |
| 36-42                    | 6600                                                      | -875                              | 4660                                                  | 314                           | 132                                | 50       |
| 42-48                    | 6300                                                      | -1175                             | 4523                                                  | 177                           | 136                                | 54       |
| 48-54                    | 7000                                                      | -475                              | 4811                                                  | 465                           | 170                                | 88       |
| 54-60                    | 7600                                                      | 125                               | 4538                                                  | 192                           | 147                                | 65       |
| 60-66                    | 6900                                                      | -575                              | 4783                                                  | 437                           | 148                                | 66       |
| 66-72                    | 7800                                                      | 325                               | 4805                                                  | 459                           | 143                                | 61       |

SLD 72959

SLD 72960

SLD 72961

SLD 72959  
Archive

SLD 72962

SLD 72959  
Archive

| HTRW DRILLING LOG                                                                                                                                                                                                                                   |  | DISTRICT                                                                                                                                   | St. Louis |                                                     | HOLE NUMBER | SLD 72963                                                                                               |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------|--|
| 1. COMPANY NAME<br>Shaw E & I                                                                                                                                                                                                                       |  | 2. DRILLING SUBCONTRACTOR<br>MES, Inc.                                                                                                     |           | SHEET                                               |             | 1 of 2 SHEETS                                                                                           |  |
| 3. PROJECT<br>FUSRAP/SLDS                                                                                                                                                                                                                           |  | 4. LOCATION<br>PSC Metals North Tract V.P.                                                                                                 |           | 5. NAME OF DRILLER<br>Chris Anthony                 |             | 6. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120                                                |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using 4" HSA and<br>3" x 2" split spoon.                                                                                                                                 |  | 8. HOLE LOCATION<br>See location sketch                                                                                                    |           | 9. SURFACE ELEVATION<br>N/A                         |             | 10. DATE STARTED<br>2-6-03                                                                              |  |
| 11. DATE COMPLETED<br>2-6-03                                                                                                                                                                                                                        |  | 12. OVERBURDEN THICKNESS<br>N/A                                                                                                            |           | 13. DEPTH GROUNDWATER ENCOUNTERED<br>N/A            |             | 14. DEPTH DRILLED INTO ROCK<br>N/A                                                                      |  |
| 15. TOTAL DEPTH OF HOLE<br>60 FT BGS                                                                                                                                                                                                                |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A                                                                        |           | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A |             | 18. GEOTECHNICAL SAMPLES<br>DISTURBED <input type="checkbox"/> UNDISTURBED <input type="checkbox"/>     |  |
| 19. TOTAL NUMBER OF CORE BOXES<br>0                                                                                                                                                                                                                 |  | 20. SAMPLES FOR CHEMICAL ANALYSIS<br>VOC <input type="checkbox"/> METALS <input type="checkbox"/> OTHER (SPECIFY) <input type="checkbox"/> |           | 21. TOTAL CORE RECOVERY<br>0 %                      |             | 22. DISPOSITION OF HOLE<br>BACKFILLED <input type="checkbox"/> MONITORING WELL <input type="checkbox"/> |  |
| 23. SIGNATURE OF INSPECTOR<br>Phillip Statler                                                                                                                                                                                                       |  | 24. SIGNATURE OF DRILLER<br>Chris Anthony                                                                                                  |           | 25. SIGNATURE OF WITNESS<br>Phillip Statler         |             | 26. SIGNATURE OF CLIENT<br>Shaw E & I                                                                   |  |
| <p>LOCATION SKETCH/COMMENTS Witnessed by: Phillip Statler</p> <p>SCALE: Not to Scale</p> <p>Terms used to describe %</p> <p>Trace - &lt; 5 %</p> <p>Few - 5 - 10 %</p> <p>Little - 15 - 25 %</p> <p>Some - 20 - 35 %</p> <p>Mostly - 50 - 100 %</p> |  |                                                                                                                                            |           |                                                     |             |                                                                                                         |  |
|                                                                                                                                                                                                                                                     |  |                                                                                                                                            |           |                                                     |             |                                                                                                         |  |
| PROJECT<br>FUSRAP/SLDS                                                                                                                                                                                                                              |  | HOLE NO.<br>SLD 72963                                                                                                                      |           |                                                     |             |                                                                                                         |  |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                                                     |                          |              |             |        | HOLE NUMBER 727153 |     |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------|-------------|--------|--------------------|-----|
| PROJECT FUSRAP/SLDS                    |                                                                                                                                                     | LOCATION Phillip Statter |              | DATE 2-6-03 |        | PAGE 2 OF 2        |     |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                                                                                            | WATER CONTENT (%)        | RECOVERY (%) | GRAIN COUNT | SLT    | SLT                | SLT |
| 0.0                                    | SM<br>Silty fine sand w/ few med. gravel, loose to med. dense, poorly graded, lt. brn, dry, some liners, some rags, few clay.                       | 5100                     | 2.0 / 2.0    | 12          | 727153 |                    |     |
| 1.0                                    |                                                                                                                                                     | 5100                     |              | 12          | 727153 |                    |     |
| 2.0                                    |                                                                                                                                                     | 4700                     |              | 15          | 727153 |                    |     |
| 3.0                                    |                                                                                                                                                     | 4800                     |              | 8           | 727153 |                    |     |
| 4.0                                    |                                                                                                                                                     | 4700                     |              | 3           | 727153 |                    |     |
| 5.0                                    | CL<br>Silty clay, soft to med. stiff, med. plat, lt. brn, to grv, dry.                                                                              | 4700                     | 1.8 / 2.0    | 3           | 727153 |                    |     |
| 6.0                                    |                                                                                                                                                     | 4700                     |              | 3           | 727153 |                    |     |
| 7.0                                    |                                                                                                                                                     | 4700                     |              | 6           | 727153 |                    |     |
| 8.0                                    |                                                                                                                                                     | 5500                     |              | 7           | 727153 |                    |     |
| 9.0                                    |                                                                                                                                                     | 4700                     |              | 3           | 727153 |                    |     |
| 10.0                                   | TD = 6.0' BG5<br>2-6-03<br>1130                                                                                                                     | 4700                     | 1.6 / 2.0    | 4           | 727153 |                    |     |
| 11.0                                   |                                                                                                                                                     | 4700                     |              | 8           | 727153 |                    |     |
| 12.0                                   |                                                                                                                                                     | 4800                     |              | 7           | 727153 |                    |     |
| 13.0                                   |                                                                                                                                                     | N/A                      |              | no recovery |        |                    |     |
| 14.0                                   |                                                                                                                                                     | N/A                      |              | no recovery |        |                    |     |
| 15.0                                   | Background:<br>Nat: 4/55<br>PIB: 0.0<br>Backfilled boring w/ 3.0 bags of bentonite chips.<br>*Samples will be counted using gas proportional meter. |                          |              |             |        |                    |     |
| 16.0                                   |                                                                                                                                                     |                          |              |             |        |                    |     |
| 17.0                                   |                                                                                                                                                     |                          |              |             |        |                    |     |
| 18.0                                   |                                                                                                                                                     |                          |              |             |        |                    |     |
| 19.0                                   |                                                                                                                                                     |                          |              |             |        |                    |     |

RADIOLOGICAL SURVEY FORM

Sample ID SLD 72963 POI

Date Sample was collected: 2-6-03

Date Sample was analyzed: 2-11-03

Instrument #1 Background 4655 cpm

Instrument #2 Background 4820 cpm

Count rate of Empty Pan: Beta 84 cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 0-6                      | 5100                                                      | 445                               | 5124                                                  | 304                           | 124                                | 40       |
| 6-12                     | 5100                                                      | 445                               | 5155                                                  | 335                           | 165                                | 81       |
| 12-18                    | 4700                                                      | 45                                | 5178                                                  | 358                           | 139                                | 55       |
| 18-24                    | 4800                                                      | 145                               | 5116                                                  | 296                           | 132                                | 48       |
| 24-30                    | 4300                                                      | 355                               | 5046                                                  | 226                           | 139                                | 55       |
| 30-36                    | 4800                                                      | 145                               | 5089                                                  | 269                           | 147                                | 63       |
| 36-42                    | 4900                                                      | 245                               | 5219                                                  | 399                           | 154                                | 70       |
| 42-48                    | N/A                                                       | N/A                               | N/A                                                   | N/A                           | N/A                                | N/A      |
| 48-54                    | 4600                                                      | 55                                | 4952                                                  | 132                           | 121                                | 37       |
| 54-60                    | 4900                                                      | 245                               | 5308                                                  | 488                           | 173                                | 89       |
| 60-66                    | 4800                                                      | 145                               | 5445                                                  | 625                           | 148                                | 64       |
| 66-72                    | N/A                                                       | N/A                               | N/A                                                   | N/A                           | N/A                                | N/A      |

# STRW DRILLING LOG

ST. LOUIS

SLD 72967 QC

EMPLOYER NAME  
Snow E & I

2. DRILLING CONTRACTOR  
MES, Inc.

SHEET 1 OF 2

1. PROJECT  
FUS RAP / SLOS

4. LOCATION  
PSC Metals North Tract U.P.  
City of Venice IL VA

3. NAME OF DRILLER  
Chris Anthony

6. MANUFACTURER'S DESIGNATION OF DRILL  
Diedrich D-12C

7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT  
Diedrich D-12C  
using 4 1/4" HSA and  
3" x 3" Spl. - smooth

8. HOLE LOCATION  
N/A

9. SURFACE ELEVATION  
N/A

10. DATE STARTED  
10-23-02

11. DATE COMPLETED  
10-23-02

12. OVERBURDEN THICKNESS  
N/A

15. DEPTH GROUNDWATER ENCOUNTERED  
N/A

13. DEPTH DRILLED INTO ROCK  
N/A

16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED  
N/A

14. TOTAL DEPTH OF HOLE  
6.0' BGS

17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)  
N/A

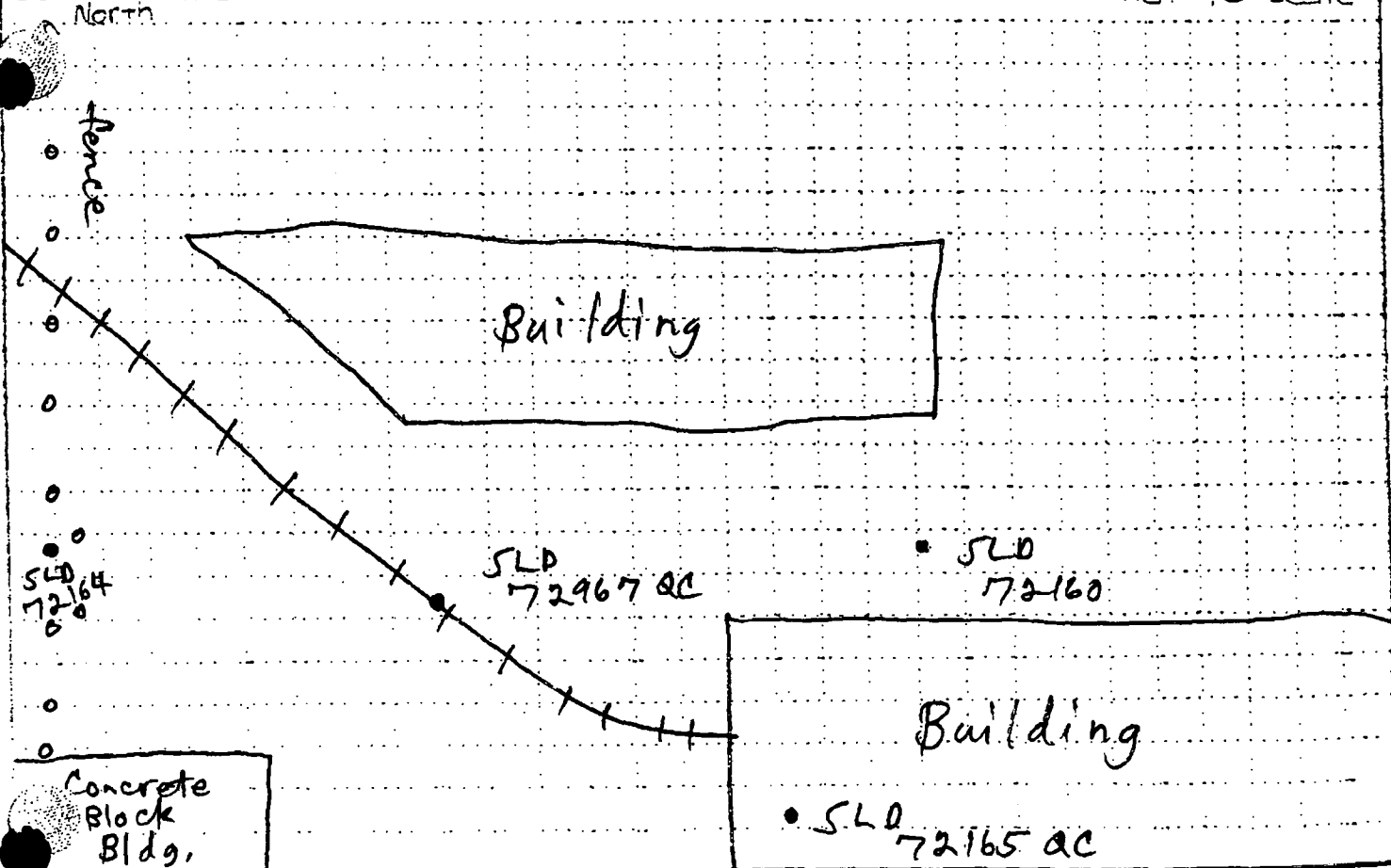
18. GEOTECHNICAL SAMPLES  
DISTURBED ☒ INDISTURBED ☒ 19. TOTAL NUMBER OF CORE BOXES  
0

20. SAMPLES FOR CHEMICAL ANALYSIS  
TOC ☒ METALS ☒ OTHER (SPECIFY) RAD ☒ OTHER (SPECIFY) ☒ OTHER (SPECIFY) ☒ 21. TOTAL CORE RECOVERY ☒

22. DISPOSITION OF CORE  
SACRIFICED ☒ MONITORING WELL ☒ OTHER (SPECIFY) ☒ 23. SIGNATURE OF INSPECTOR  
[Signature]

LOCATION SKETCH/COMMENTS

SCALE: NOT TO SCALE



FUS RAP / SLOS

SLD 72967 QC

EM 1110-1-4000

1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                         | HOLE NUMBER                                              |                                                                                                                          |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| PROJECT FUSRAP/SLDS                    |                                                                                                                         | INSPECTOR Phillip Statler                                |                                                                                                                          |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                                                                | NO. OF SAMPLES                                           | REMARKS                                                                                                                  |
| 1.0                                    | Silty fine sand w/ some med. gravel, med. dense, poorly graded, lt. brn, dry, some cinders, some slag, few brick frags. | 6300 0.0<br>6500 0.0<br>6700 0.0                         | RECOVERY 2.0/2.0<br>SLD 72967-10-22-02 12<br>1600 PC 9<br>15                                                             |
| 2.0                                    | Silty clay, med. stiff, med. plast., lt. brn, dry.                                                                      | 6500 0.0<br>5600 0.0<br>6000 0.0<br>5800 0.0<br>5900 0.0 | SLD 72968 1605 13<br>6X <sup>PC</sup><br>2.0/2.0 3<br>4<br>5                                                             |
| 4.0                                    | limestone frag.<br>clay turning lt. gry.                                                                                | 5800 0.0<br>5900 0.0<br>6200 0.0<br>N/A N/A              | 1.7/2.0 4<br>5<br>9<br>no recovery 11                                                                                    |
| 6.0                                    | TP: 6.0 BGS<br>10-23-02<br>1600                                                                                         |                                                          | Background:<br>NAT: 6900<br>PID: 0.0<br>Backfilled<br>boring w/<br>3.0 bags<br>of bentonite<br>chips. Capped<br>w/ soil. |

FUSRAP/SLDS

SLD 72967 QC

| HTRW DRILLING LOG                                                                                                                     |  |  |                                                                            | DISTRICT <u>St. Louis</u> |  | HOLE NUMBER <u>72971</u>   |  |
|---------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------------------------------------------------------|---------------------------|--|----------------------------|--|
| 1. COMPANY NAME<br><u>Shaw E &amp; I</u>                                                                                              |  |  | 2. DRILLING SUBCONTRACTOR<br><u>MES, Inc.</u>                              |                           |  | SHEET <u>1</u> OF <u>2</u> |  |
| 3. PROJECT<br><u>FUSRAP/SLDS</u>                                                                                                      |  |  | 4. LOCATION<br><u>PSC Metals North Tract V.P.</u>                          |                           |  |                            |  |
| 5. NAME OF DRILLER<br><u>Chris Anthony</u>                                                                                            |  |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>Diedrich D-120</u>            |                           |  |                            |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Diedrich D-120</u><br><u>using HSA and</u><br><u>3" x 3" split spoon.</u> |  |  | 8. HOLE LOCATION<br><u>See location sketch</u>                             |                           |  |                            |  |
| 9. SURFACE ELEVATION                                                                                                                  |  |  | 10. DATE STARTED <u>2-5-03</u>                                             |                           |  |                            |  |
| 11. DATE COMPLETED <u>2-5-03</u>                                                                                                      |  |  | 12. OVERSPIDER THICKNESS<br><u>N/A</u>                                     |                           |  |                            |  |
| 13. DEPTH DRILLED INTO ROCK<br><u>N/A</u>                                                                                             |  |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |                           |  |                            |  |
| 15. TOTAL DEPTH OF HOLE<br><u>6 FT BGS</u>                                                                                            |  |  | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |                           |  |                            |  |
| 17. GEOTECHNICAL SAMPLES                                                                                                              |  |  | 18. TOTAL NUMBER OF CORE BOXES                                             |                           |  |                            |  |
| 19. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                     |  |  | 20. TOTAL CORE RECOVERY %                                                  |                           |  |                            |  |
| 21. DISPOSITION OF HOLE                                                                                                               |  |  | 22. SIGNATURE OF INSPECTOR                                                 |                           |  |                            |  |
| 23. DISTURBED                                                                                                                         |  |  | 24. UNDISTURBED                                                            |                           |  |                            |  |
| 25. YES                                                                                                                               |  |  | 26. METALS                                                                 |                           |  |                            |  |
| 27. NO                                                                                                                                |  |  | 28. OTHER (SPECIFY)                                                        |                           |  |                            |  |
| 29. YES                                                                                                                               |  |  | 30. OTHER (SPECIFY)                                                        |                           |  |                            |  |
| 31. NO                                                                                                                                |  |  | 32. OTHER (SPECIFY)                                                        |                           |  |                            |  |
| 33. YES                                                                                                                               |  |  | 34. NO                                                                     |                           |  |                            |  |
| 35. YES                                                                                                                               |  |  | 36. NO                                                                     |                           |  |                            |  |
| 37. YES                                                                                                                               |  |  | 38. NO                                                                     |                           |  |                            |  |
| 39. YES                                                                                                                               |  |  | 40. NO                                                                     |                           |  |                            |  |
| 41. YES                                                                                                                               |  |  | 42. NO                                                                     |                           |  |                            |  |
| 43. YES                                                                                                                               |  |  | 44. NO                                                                     |                           |  |                            |  |
| 45. YES                                                                                                                               |  |  | 46. NO                                                                     |                           |  |                            |  |
| 47. YES                                                                                                                               |  |  | 48. NO                                                                     |                           |  |                            |  |
| 49. YES                                                                                                                               |  |  | 50. NO                                                                     |                           |  |                            |  |
| 51. YES                                                                                                                               |  |  | 52. NO                                                                     |                           |  |                            |  |
| 53. YES                                                                                                                               |  |  | 54. NO                                                                     |                           |  |                            |  |
| 55. YES                                                                                                                               |  |  | 56. NO                                                                     |                           |  |                            |  |
| 57. YES                                                                                                                               |  |  | 58. NO                                                                     |                           |  |                            |  |
| 59. YES                                                                                                                               |  |  | 60. NO                                                                     |                           |  |                            |  |
| 61. YES                                                                                                                               |  |  | 62. NO                                                                     |                           |  |                            |  |
| 63. YES                                                                                                                               |  |  | 64. NO                                                                     |                           |  |                            |  |
| 65. YES                                                                                                                               |  |  | 66. NO                                                                     |                           |  |                            |  |
| 67. YES                                                                                                                               |  |  | 68. NO                                                                     |                           |  |                            |  |
| 69. YES                                                                                                                               |  |  | 70. NO                                                                     |                           |  |                            |  |
| 71. YES                                                                                                                               |  |  | 72. NO                                                                     |                           |  |                            |  |
| 73. YES                                                                                                                               |  |  | 74. NO                                                                     |                           |  |                            |  |
| 75. YES                                                                                                                               |  |  | 76. NO                                                                     |                           |  |                            |  |
| 77. YES                                                                                                                               |  |  | 78. NO                                                                     |                           |  |                            |  |
| 79. YES                                                                                                                               |  |  | 80. NO                                                                     |                           |  |                            |  |
| 81. YES                                                                                                                               |  |  | 82. NO                                                                     |                           |  |                            |  |
| 83. YES                                                                                                                               |  |  | 84. NO                                                                     |                           |  |                            |  |
| 85. YES                                                                                                                               |  |  | 86. NO                                                                     |                           |  |                            |  |
| 87. YES                                                                                                                               |  |  | 88. NO                                                                     |                           |  |                            |  |
| 89. YES                                                                                                                               |  |  | 90. NO                                                                     |                           |  |                            |  |
| 91. YES                                                                                                                               |  |  | 92. NO                                                                     |                           |  |                            |  |
| 93. YES                                                                                                                               |  |  | 94. NO                                                                     |                           |  |                            |  |
| 95. YES                                                                                                                               |  |  | 96. NO                                                                     |                           |  |                            |  |
| 97. YES                                                                                                                               |  |  | 98. NO                                                                     |                           |  |                            |  |
| 99. YES                                                                                                                               |  |  | 100. NO                                                                    |                           |  |                            |  |
| 101. YES                                                                                                                              |  |  | 102. NO                                                                    |                           |  |                            |  |
| 103. YES                                                                                                                              |  |  | 104. NO                                                                    |                           |  |                            |  |
| 105. YES                                                                                                                              |  |  | 106. NO                                                                    |                           |  |                            |  |
| 107. YES                                                                                                                              |  |  | 108. NO                                                                    |                           |  |                            |  |
| 109. YES                                                                                                                              |  |  | 110. NO                                                                    |                           |  |                            |  |
| 111. YES                                                                                                                              |  |  | 112. NO                                                                    |                           |  |                            |  |
| 113. YES                                                                                                                              |  |  | 114. NO                                                                    |                           |  |                            |  |
| 115. YES                                                                                                                              |  |  | 116. NO                                                                    |                           |  |                            |  |
| 117. YES                                                                                                                              |  |  | 118. NO                                                                    |                           |  |                            |  |
| 119. YES                                                                                                                              |  |  | 120. NO                                                                    |                           |  |                            |  |
| 121. YES                                                                                                                              |  |  | 122. NO                                                                    |                           |  |                            |  |
| 123. YES                                                                                                                              |  |  | 124. NO                                                                    |                           |  |                            |  |
| 125. YES                                                                                                                              |  |  | 126. NO                                                                    |                           |  |                            |  |
| 127. YES                                                                                                                              |  |  | 128. NO                                                                    |                           |  |                            |  |
| 129. YES                                                                                                                              |  |  | 130. NO                                                                    |                           |  |                            |  |
| 131. YES                                                                                                                              |  |  | 132. NO                                                                    |                           |  |                            |  |
| 133. YES                                                                                                                              |  |  | 134. NO                                                                    |                           |  |                            |  |
| 135. YES                                                                                                                              |  |  | 136. NO                                                                    |                           |  |                            |  |
| 137. YES                                                                                                                              |  |  | 138. NO                                                                    |                           |  |                            |  |
| 139. YES                                                                                                                              |  |  | 140. NO                                                                    |                           |  |                            |  |
| 141. YES                                                                                                                              |  |  | 142. NO                                                                    |                           |  |                            |  |
| 143. YES                                                                                                                              |  |  | 144. NO                                                                    |                           |  |                            |  |
| 145. YES                                                                                                                              |  |  | 146. NO                                                                    |                           |  |                            |  |
| 147. YES                                                                                                                              |  |  | 148. NO                                                                    |                           |  |                            |  |
| 149. YES                                                                                                                              |  |  | 150. NO                                                                    |                           |  |                            |  |
| 151. YES                                                                                                                              |  |  | 152. NO                                                                    |                           |  |                            |  |
| 153. YES                                                                                                                              |  |  | 154. NO                                                                    |                           |  |                            |  |
| 155. YES                                                                                                                              |  |  | 156. NO                                                                    |                           |  |                            |  |
| 157. YES                                                                                                                              |  |  | 158. NO                                                                    |                           |  |                            |  |
| 159. YES                                                                                                                              |  |  | 160. NO                                                                    |                           |  |                            |  |
| 161. YES                                                                                                                              |  |  | 162. NO                                                                    |                           |  |                            |  |
| 163. YES                                                                                                                              |  |  | 164. NO                                                                    |                           |  |                            |  |
| 165. YES                                                                                                                              |  |  | 166. NO                                                                    |                           |  |                            |  |
| 167. YES                                                                                                                              |  |  | 168. NO                                                                    |                           |  |                            |  |
| 169. YES                                                                                                                              |  |  | 170. NO                                                                    |                           |  |                            |  |
| 171. YES                                                                                                                              |  |  | 172. NO                                                                    |                           |  |                            |  |
| 173. YES                                                                                                                              |  |  | 174. NO                                                                    |                           |  |                            |  |
| 175. YES                                                                                                                              |  |  | 176. NO                                                                    |                           |  |                            |  |
| 177. YES                                                                                                                              |  |  | 178. NO                                                                    |                           |  |                            |  |
| 179. YES                                                                                                                              |  |  | 180. NO                                                                    |                           |  |                            |  |
| 181. YES                                                                                                                              |  |  | 182. NO                                                                    |                           |  |                            |  |
| 183. YES                                                                                                                              |  |  | 184. NO                                                                    |                           |  |                            |  |
| 185. YES                                                                                                                              |  |  | 186. NO                                                                    |                           |  |                            |  |
| 187. YES                                                                                                                              |  |  | 188. NO                                                                    |                           |  |                            |  |
| 189. YES                                                                                                                              |  |  | 190. NO                                                                    |                           |  |                            |  |
| 191. YES                                                                                                                              |  |  | 192. NO                                                                    |                           |  |                            |  |
| 193. YES                                                                                                                              |  |  | 194. NO                                                                    |                           |  |                            |  |
| 195. YES                                                                                                                              |  |  | 196. NO                                                                    |                           |  |                            |  |
| 197. YES                                                                                                                              |  |  | 198. NO                                                                    |                           |  |                            |  |
| 199. YES                                                                                                                              |  |  | 200. NO                                                                    |                           |  |                            |  |
| 201. YES                                                                                                                              |  |  | 202. NO                                                                    |                           |  |                            |  |
| 203. YES                                                                                                                              |  |  | 204. NO                                                                    |                           |  |                            |  |
| 205. YES                                                                                                                              |  |  | 206. NO                                                                    |                           |  |                            |  |
| 207. YES                                                                                                                              |  |  | 208. NO                                                                    |                           |  |                            |  |
| 209. YES                                                                                                                              |  |  | 210. NO                                                                    |                           |  |                            |  |
| 211. YES                                                                                                                              |  |  | 212. NO                                                                    |                           |  |                            |  |
| 213. YES                                                                                                                              |  |  | 214. NO                                                                    |                           |  |                            |  |
| 215. YES                                                                                                                              |  |  | 216. NO                                                                    |                           |  |                            |  |
| 217. YES                                                                                                                              |  |  | 218. NO                                                                    |                           |  |                            |  |
| 219. YES                                                                                                                              |  |  | 220. NO                                                                    |                           |  |                            |  |
| 221. YES                                                                                                                              |  |  | 222. NO                                                                    |                           |  |                            |  |
| 223. YES                                                                                                                              |  |  | 224. NO                                                                    |                           |  |                            |  |
| 225. YES                                                                                                                              |  |  | 226. NO                                                                    |                           |  |                            |  |
| 227. YES                                                                                                                              |  |  | 228. NO                                                                    |                           |  |                            |  |
| 229. YES                                                                                                                              |  |  | 230. NO                                                                    |                           |  |                            |  |
| 231. YES                                                                                                                              |  |  | 232. NO                                                                    |                           |  |                            |  |
| 233. YES                                                                                                                              |  |  | 234. NO                                                                    |                           |  |                            |  |
| 235. YES                                                                                                                              |  |  | 236. NO                                                                    |                           |  |                            |  |
| 237. YES                                                                                                                              |  |  | 238. NO                                                                    |                           |  |                            |  |
| 239. YES                                                                                                                              |  |  | 240. NO                                                                    |                           |  |                            |  |
| 241. YES                                                                                                                              |  |  | 242. NO                                                                    |                           |  |                            |  |
| 243. YES                                                                                                                              |  |  | 244. NO                                                                    |                           |  |                            |  |
| 245. YES                                                                                                                              |  |  | 246. NO                                                                    |                           |  |                            |  |
| 247. YES                                                                                                                              |  |  | 248. NO                                                                    |                           |  |                            |  |
| 249. YES                                                                                                                              |  |  | 250. NO                                                                    |                           |  |                            |  |
| 251. YES                                                                                                                              |  |  | 252. NO                                                                    |                           |  |                            |  |
| 253. YES                                                                                                                              |  |  | 254. NO                                                                    |                           |  |                            |  |
| 255. YES                                                                                                                              |  |  | 256. NO                                                                    |                           |  |                            |  |
| 257. YES                                                                                                                              |  |  | 258. NO                                                                    |                           |  |                            |  |
| 259. YES                                                                                                                              |  |  | 260. NO                                                                    |                           |  |                            |  |
| 261. YES                                                                                                                              |  |  | 262. NO                                                                    |                           |  |                            |  |
| 263. YES                                                                                                                              |  |  | 264. NO                                                                    |                           |  |                            |  |
| 265. YES                                                                                                                              |  |  | 266. NO                                                                    |                           |  |                            |  |
| 267. YES                                                                                                                              |  |  | 268. NO                                                                    |                           |  |                            |  |
| 269. YES                                                                                                                              |  |  | 270. NO                                                                    |                           |  |                            |  |
| 271. YES                                                                                                                              |  |  | 272. NO                                                                    |                           |  |                            |  |
| 273. YES                                                                                                                              |  |  | 274. NO                                                                    |                           |  |                            |  |
| 275. YES                                                                                                                              |  |  | 276. NO                                                                    |                           |  |                            |  |
| 277. YES                                                                                                                              |  |  | 278. NO                                                                    |                           |  |                            |  |
| 279. YES                                                                                                                              |  |  | 280. NO                                                                    |                           |  |                            |  |
| 281. YES                                                                                                                              |  |  | 282. NO                                                                    |                           |  |                            |  |
| 283. YES                                                                                                                              |  |  | 284. NO                                                                    |                           |  |                            |  |
| 285. YES                                                                                                                              |  |  | 286. NO                                                                    |                           |  |                            |  |
| 287. YES                                                                                                                              |  |  | 288. NO                                                                    |                           |  |                            |  |
| 289. YES                                                                                                                              |  |  | 290. NO                                                                    |                           |  |                            |  |
| 291. YES                                                                                                                              |  |  | 292. NO                                                                    |                           |  |                            |  |
| 293. YES                                                                                                                              |  |  | 294. NO                                                                    |                           |  |                            |  |
| 295. YES                                                                                                                              |  |  | 296. NO                                                                    |                           |  |                            |  |
| 297. YES                                                                                                                              |  |  | 298. NO                                                                    |                           |  |                            |  |
| 299. YES                                                                                                                              |  |  | 300. NO                                                                    |                           |  |                            |  |
| 301. YES                                                                                                                              |  |  | 302. NO                                                                    |                           |  |                            |  |
| 303. YES                                                                                                                              |  |  | 304. NO                                                                    |                           |  |                            |  |
| 305. YES                                                                                                                              |  |  | 306. NO                                                                    |                           |  |                            |  |
| 307. YES                                                                                                                              |  |  | 308. NO                                                                    |                           |  |                            |  |
| 309. YES                                                                                                                              |  |  | 310. NO                                                                    |                           |  |                            |  |
| 311. YES                                                                                                                              |  |  | 312. NO                                                                    |                           |  |                            |  |
| 313. YES                                                                                                                              |  |  | 314. NO                                                                    |                           |  |                            |  |
| 315. YES                                                                                                                              |  |  | 316. NO                                                                    |                           |  |                            |  |
| 317. YES                                                                                                                              |  |  | 318. NO                                                                    |                           |  |                            |  |
| 319. YES                                                                                                                              |  |  | 320. NO                                                                    |                           |  |                            |  |
| 321. YES                                                                                                                              |  |  | 322. NO                                                                    |                           |  |                            |  |
| 323. YES                                                                                                                              |  |  | 324. NO                                                                    |                           |  |                            |  |
| 325. YES                                                                                                                              |  |  | 326. NO                                                                    |                           |  |                            |  |
| 327. YES                                                                                                                              |  |  | 328. NO                                                                    |                           |  |                            |  |
| 329. YES                                                                                                                              |  |  | 330. NO                                                                    |                           |  |                            |  |
| 331. YES                                                                                                                              |  |  | 332. NO                                                                    |                           |  |                            |  |
| 333. YES                                                                                                                              |  |  | 334. NO                                                                    |                           |  |                            |  |
| 335. YES                                                                                                                              |  |  | 336. NO                                                                    |                           |  |                            |  |
| 337. YES                                                                                                                              |  |  | 338. NO                                                                    |                           |  |                            |  |
| 339. YES                                                                                                                              |  |  | 340. NO                                                                    |                           |  |                            |  |
| 341. YES                                                                                                                              |  |  | 342. NO                                                                    |                           |  |                            |  |
| 343. YES                                                                                                                              |  |  | 344. NO                                                                    |                           |  |                            |  |
| 345. YES                                                                                                                              |  |  | 346. NO                                                                    |                           |  |                            |  |
| 347. YES                                                                                                                              |  |  | 348. NO                                                                    |                           |  |                            |  |
| 349. YES                                                                                                                              |  |  | 350. NO                                                                    |                           |  |                            |  |
| 351. YES                                                                                                                              |  |  | 352. NO                                                                    |                           |  |                            |  |
| 353. YES                                                                                                                              |  |  | 354. NO                                                                    |                           |  |                            |  |
| 355. YES                                                                                                                              |  |  | 356. NO                                                                    |                           |  |                            |  |
| 357. YES                                                                                                                              |  |  | 358. NO                                                                    |                           |  |                            |  |
| 359. YES                                                                                                                              |  |  | 360. NO                                                                    |                           |  |                            |  |
| 361. YES                                                                                                                              |  |  | 362. NO                                                                    |                           |  |                            |  |
| 363. YES                                                                                                                              |  |  | 364. NO                                                                    |                           |  |                            |  |
| 365. YES                                                                                                                              |  |  | 366. NO                                                                    |                           |  |                            |  |
| 367. YES                                                                                                                              |  |  | 368. NO                                                                    |                           |  |                            |  |
| 369. YES                                                                                                                              |  |  | 370. NO                                                                    |                           |  |                            |  |
| 371. YES                                                                                                                              |  |  | 372. NO                                                                    |                           |  |                            |  |
| 373. YES                                                                                                                              |  |  | 374. NO                                                                    |                           |  |                            |  |
| 375. YES                                                                                                                              |  |  | 376. NO                                                                    |                           |  |                            |  |
| 377. YES                                                                                                                              |  |  | 378. NO                                                                    |                           |  |                            |  |
| 379. YES                                                                                                                              |  |  | 380. NO                                                                    |                           |  |                            |  |
| 381. YES                                                                                                                              |  |  | 382. NO                                                                    |                           |  |                            |  |
| 383. YES                                                                                                                              |  |  | 384. NO                                                                    |                           |  |                            |  |
| 385. YES                                                                                                                              |  |  | 386. NO                                                                    |                           |  |                            |  |
| 387. YES                                                                                                                              |  |  | 388. NO                                                                    |                           |  |                            |  |
| 389. YES                                                                                                                              |  |  | 390. NO                                                                    |                           |  |                            |  |
| 391. YES                                                                                                                              |  |  | 392. NO                                                                    |                           |  |                            |  |
| 393. YES                                                                                                                              |  |  | 394. NO                                                                    |                           |  |                            |  |
| 395. YES                                                                                                                              |  |  | 396. NO                                                                    |                           |  |                            |  |
| 397. YES                                                                                                                              |  |  | 398. NO                                                                    |                           |  |                            |  |
| 399. YES                                                                                                                              |  |  | 400. NO                                                                    |                           |  |                            |  |
| 401. YES                                                                                                                              |  |  | 402. NO                                                                    |                           |  |                            |  |
| 403. YES                                                                                                                              |  |  | 404. NO                                                                    |                           |  |                            |  |
| 405. YES                                                                                                                              |  |  | 406. NO                                                                    |                           |  |                            |  |
| 407. YES                                                                                                                              |  |  | 408. NO                                                                    |                           |  |                            |  |
| 409. YES                                                                                                                              |  |  | 410. NO                                                                    |                           |  |                            |  |
| 411. YES                                                                                                                              |  |  | 412. NO                                                                    |                           |  |                            |  |
| 413. YES                                                                                                                              |  |  | 414. NO                                                                    |                           |  |                            |  |
| 415. YES                                                                                                                              |  |  | 416. NO                                                                    |                           |  |                            |  |
| 417. YES                                                                                                                              |  |  | 418. NO                                                                    |                           |  |                            |  |
| 419. YES                                                                                                                              |  |  | 420. NO                                                                    |                           |  |                            |  |
| 421. YES                                                                                                                              |  |  | 422. NO                                                                    |                           |  |                            |  |
| 423. YES                                                                                                                              |  |  | 424. NO                                                                    |                           |  |                            |  |
| 425. YES                                                                                                                              |  |  | 426. NO                                                                    |                           |  |                            |  |
| 427. YES                                                                                                                              |  |  | 428. NO                                                                    |                           |  |                            |  |
| 429. YES                                                                                                                              |  |  | 430. NO                                                                    |                           |  |                            |  |
| 431. YES                                                                                                                              |  |  | 432. NO                                                                    |                           |  |                            |  |
| 433. YES                                                                                                                              |  |  | 434. NO                                                                    |                           |  |                            |  |
| 435. YES                                                                                                                              |  |  | 436. NO                                                                    |                           |  |                            |  |
| 437. YES                                                                                                                              |  |  | 438. NO                                                                    |                           |  |                            |  |
| 439. YES                                                                                                                              |  |  | 440. NO                                                                    |                           |  |                            |  |
| 441. YES                                                                                                                              |  |  | 442. NO                                                                    |                           |  |                            |  |
| 443. YES                                                                                                                              |  |  | 444. NO                                                                    |                           |  |                            |  |
| 445. YES                                                                                                                              |  |  | 446. NO                                                                    |                           |  |                            |  |
| 447. YES                                                                                                                              |  |  | 448. NO                                                                    |                           |  |                            |  |
| 449. YES                                                                                                                              |  |  | 450. NO                                                                    |                           |  |                            |  |
| 451. YES                                                                                                                              |  |  | 452. NO                                                                    |                           |  |                            |  |
| 453. YES                                                                                                                              |  |  | 454. NO                                                                    |                           |  |                            |  |
| 455. YES                                                                                                                              |  |  | 456. NO                                                                    |                           |  |                            |  |
| 457. YES                                                                                                                              |  |  | 458. NO                                                                    |                           |  |                            |  |
| 459. YES                                                                                                                              |  |  | 460. NO                                                                    |                           |  |                            |  |
| 461. YES                                                                                                                              |  |  | 462. NO                                                                    |                           |  |                            |  |
| 463. YES                                                                                                                              |  |  | 464. NO                                                                    |                           |  |                            |  |
| 465. YES                                                                                                                              |  |  | 466. NO                                                                    |                           |  |                            |  |
| 467. YES                                                                                                                              |  |  | 468. NO                                                                    |                           |  |                            |  |
| 469. YES                                                                                                                              |  |  | 470. NO                                                                    |                           |  |                            |  |
|                                                                                                                                       |  |  |                                                                            |                           |  |                            |  |



| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                                            |               |               |            |         |                | WELL NUMBER                                                                                  |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|------------|---------|----------------|----------------------------------------------------------------------------------------------|
| PROJECT                                |                                                                                                                                            | INSPECTOR     |               | DATE       |         | SHEET          |                                                                                              |
| FUSRAP / SLDS                          |                                                                                                                                            | Mark Cummings |               | 2          |         | 2              |                                                                                              |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                                                                                   | RECOVERY (%)  | REMARKS       | DEPTH (ft) | REMARKS | DEPTH (ft)     | REMARKS                                                                                      |
| 0.0                                    | Gravel w/ few Sil, Fine w/ Trace Cobble Size, Fine Grained Sand, Poor Grading, Gray                                                        | 6700 0.0      | RECOVERY 100% | 1345       | 14      | SLD 72971 1345 | # Samples will be count w/ Gas Proportion Detector. See Attached Results Sheet. For Read 1/2 |
| 1.0                                    | Silty Sand w/ Trace Fine Gravel, Loose, Dark Grained, Dk Brown to Dk Dry, Little Cinders, Few Slag (Both Fine Gravel to coarse sand size). | 6600 0.0      | 2.0           | 1345       | 26      | SLD 72972 1345 |                                                                                              |
| 2.0                                    |                                                                                                                                            | 7100 0.0      | 1.5           | 1345       | 11      | SLD 72972 1345 |                                                                                              |
|                                        |                                                                                                                                            | 6000 0.0      | 1.5-2         | 1345       | 6       |                |                                                                                              |
|                                        | Coarse Gravel size Cinders                                                                                                                 | 7200 0        | 1.8           | 2-2.5      | 3       | SLD 72973 1355 |                                                                                              |
| 3.0                                    | Silty Clay, Med Plag, Silty, Dk Brown to Dk Gray, Trace Cinders                                                                            | 7400 0        | 2.0           | 2.5-3      | 3       | SLD 72973 1355 |                                                                                              |
|                                        |                                                                                                                                            | 7500 0        |               | 3-3.5      | 5       |                |                                                                                              |
|                                        |                                                                                                                                            | 7300 0        |               | 3.5-4      | 6       |                |                                                                                              |
| 4.0                                    |                                                                                                                                            | 7900 0        | 1.8           | 4-4.5      | 2       |                |                                                                                              |
|                                        |                                                                                                                                            | 7200 0        | 2.0           | 4.5-5      | 5       | SLD 72974 1410 |                                                                                              |
| 5.0                                    |                                                                                                                                            | 7300 0        |               | 5-9.5      | 6       | SLD 72974 1410 |                                                                                              |
| 6.0                                    |                                                                                                                                            | 6900 0        | No Recal.     | 9.5-6      | 9       |                |                                                                                              |
| 7.0                                    | TD 6' BGS 2-5-03 1415                                                                                                                      |               |               |            |         |                | Backfilled w/ 3 Bags Bentonite chips                                                         |
| 8.0                                    |                                                                                                                                            |               |               |            |         |                |                                                                                              |
| 9.0                                    |                                                                                                                                            |               |               |            |         |                |                                                                                              |
| 10.0                                   |                                                                                                                                            |               |               |            |         |                |                                                                                              |

**Inc. Corporation**  
**FUSRAP SLDS 775575**

**RADIOLOGICAL SURVEY FORM**

Sample ID SLD 72971

Date Sample was collected: 2-5-03

Date Sample was analyzed: 2-6-03

Instrument #1 Background 7475 cpm

Instrument #2 Background 4708 cpm

Count rate of Empty Pan: Beta 93 cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 0-6                      | 6700                                                      | -775                              | 4515                                                  | -193                          | 120                                | 27       |
| 6-12                     | 6600                                                      | -875                              | 4926                                                  | 218                           | 149                                | 56       |
| 12-18                    | 7100                                                      | -375                              | 5132                                                  | 424                           | 224                                | 131      |
| 18-24                    | 6000                                                      | -1475                             | 5046                                                  | 338                           | 199                                | 106      |
| 24-30                    | 7200                                                      | -275                              | 4683                                                  | -25                           | 130                                | 37       |
| 30-36                    | 7400                                                      | -75                               | 4844                                                  | 136                           | 144                                | 51       |
| 36-42                    | 7500                                                      | 25                                | 4821                                                  | 113                           | 146                                | 53       |
| 42-48                    | 7300                                                      | -175                              | 4757                                                  | 49                            | 151                                | 58       |
| 48-54                    | 7900                                                      | 425                               | 4943                                                  | 235                           | 126                                | 33       |
| 54-60                    | 7200                                                      | -275                              | 4954                                                  | 246                           | 146                                | 53       |
| 60-66                    | 7300                                                      | -175                              | 4804                                                  | 96                            | 127                                | 34       |
| 66-72                    | 6900                                                      | -575                              | 5267                                                  | 559                           | 160                                | 67       |

SLD 72971

SLD 72972

SLD 72971  
Archive

SLD 72973

SLD 72971  
Archive

SLD 72974

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |                                               | DISTRICT <b>St. Louis</b>                                                  |  | HOLE NUMBER<br><b>SLD 72975</b> |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|-----------------------------------------------|----------------------------------------------------------------------------|--|---------------------------------|--|
| 1. COMPANY NAME<br><b>Shaw E &amp; I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  | 2. DRILLING SUBCONTRACTOR<br><b>MES, Inc.</b> |                                                                            |  | SHEET <b>1</b> OF <b>2</b>      |  |
| 3. PROJECT<br><b>FUSRAP/SLDS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |                                               | 4. LOCATION<br><b>PSC Metals North Tract V.P.</b>                          |  |                                 |  |
| 5. NAME OF DRILLER<br><b>Chris Anthony</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |                                               | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><b>Diedrich D-120</b>            |  |                                 |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><b>Diedrich D-120<br/>using HSA and<br/>3" x 3" split spoon.</b>                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |                                               | 8. HOLE LOCATION<br><b>See location sketch</b>                             |  |                                 |  |
| 9. SURFACE ELEVATION<br><b>N/A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |                                               | 10. DATE STARTED<br><b>1-21-03</b>                                         |  |                                 |  |
| 11. DATE COMPLETED<br><b>1-21-03</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |                                               | 12. OVERBURDEN THICKNESS<br><b>N/A</b>                                     |  |                                 |  |
| 13. DEPTH DRILLED INTO ROCK<br><b>N/A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |                                               | 15. DEPTH GROUNDWATER ENCOUNTERED<br><b>N/A</b>                            |  |                                 |  |
| 14. TOTAL DEPTH OF HOLE<br><b>6.0 FT BGS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |                                               | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><b>N/A</b> |  |                                 |  |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><b>N/A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |                                               | 18. GEOTECHNICAL SAMPLES                                                   |  |                                 |  |
| <div style="display: flex; justify-content: space-between;"> <span>18. GEOTECHNICAL SAMPLES</span> <span><input checked="" type="checkbox"/> DISTURBED</span> <span><input checked="" type="checkbox"/> UNDISTURBED</span> </div>                                                                                                                                                                                                                                                                                                                      |  |  |                                               | 19. TOTAL NUMBER OF CORE BOXES<br><b>0</b>                                 |  |                                 |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |                                               | 21. TOTAL CORE RECOVERY <b>0 %</b>                                         |  |                                 |  |
| <div style="display: flex; justify-content: space-between;"> <span>20. SAMPLES FOR CHEMICAL ANALYSIS</span> <span><input checked="" type="checkbox"/> VOC</span> <span><input checked="" type="checkbox"/> METALS</span> <span><input checked="" type="checkbox"/> OTHER (SPECIFY) <b>RAD</b></span> </div>                                                                                                                                                                                                                                            |  |  |                                               | 22. DISPOSITION OF HOLE                                                    |  |                                 |  |
| <div style="display: flex; justify-content: space-between;"> <span>22. DISPOSITION OF HOLE</span> <span><input checked="" type="checkbox"/> BACKFILLED</span> <span><input checked="" type="checkbox"/> MONITORING WELL</span> <span><input checked="" type="checkbox"/> OTHER (SPECIFY) <b>N/A</b></span> </div>                                                                                                                                                                                                                                      |  |  |                                               | 23. SIGNATURE OF INSPECTOR<br><i>[Signature]</i>                           |  |                                 |  |
| <div style="display: flex; justify-content: space-between;"> <div> <p>LOCATION SKETCH/COMMENTS</p> <p>Witnessed by: <b>Phillip Statler</b></p> </div> <div> <p>SCALE: Not to Scale</p> <p>Terms used to describe %</p> <p>Trace - &lt; 5 %</p> <p>Few - 5 - 10 %</p> <p>Little - 15 - 25 %</p> <p>Some - 20 - 35 %</p> <p>Mostly - 50 - 100 %</p> </div> </div>                                                                                                                                                                                        |  |  |                                               |                                                                            |  |                                 |  |
| <div style="position: relative;"> <div style="position: absolute; top: 10%; left: 40%;"> <p>• SLD<br/>72975</p> </div> <div style="position: absolute; top: 30%; left: 60%;"> <p>• SLD<br/>72975</p> </div> <div style="position: absolute; top: 50%; left: 50%;"> <p>• HTZ<br/>69453</p> </div> <div style="position: absolute; top: 60%; left: 70%;"> <p>• SLD 72975</p> </div> <div style="position: absolute; top: 80%; left: 55%;"> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>Bldg.</p> </div> </div> </div> |  |  |                                               |                                                                            |  |                                 |  |
| PROJECT <b>FUSRAP/SLDS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |                                               |                                                                            |  | HOLE NO. <b>SLD 72975</b>       |  |

EM 1110-1-4000  
1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                        |                           |              |                   |                   | HOLE NO. 72975    |                     |
|----------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------|--------------|-------------------|-------------------|-------------------|---------------------|
| PROJECT FUSRAP/SLDS                    |                                                                                                        | INSPECTOR Phillip Statler |              | SHEET 2 of 2      |                   | SHEETS            |                     |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                                               | WATER CONTENT (%)         | RECOVERY (%) | WATER CONTENT (%) | WATER CONTENT (%) | WATER CONTENT (%) | WATER CONTENT (%)   |
| 1.0                                    | silty fine sand w/ some med. to coarse gravel, med. dense, poorly graded, H. brn, dry, few brick frags | 4300 0.0                  | 2.0 / 2.0    | 0.0-0.5 1370      | 50                | SLD 72975 1370    |                     |
|                                        |                                                                                                        | 4400 0.0                  |              | 0.5-1.0 1313      | 64                |                   |                     |
|                                        |                                                                                                        | 4500 0.0                  |              | 1.0-1.5 1315      | 36                |                   |                     |
| 2.0                                    | trace slag.                                                                                            | 4600 0.0                  |              | 1.5-2.0 1317      | 24                | SLD 72976 1318    |                     |
|                                        |                                                                                                        | 5000 0.0                  | 1.8 / 2.0    | 2.0-2.5 1320      | 11                |                   |                     |
|                                        |                                                                                                        | 5000 0.0                  |              | 2.5-3.0 1322      | 11                | SLD 72977 1322    |                     |
| 3.0                                    | few cinders, few slag, trace broken glass, trace brick frags                                           | 4800 0.0                  |              | 3.0-3.8 1327      | 9                 |                   |                     |
|                                        |                                                                                                        | N/A                       |              |                   | 10                |                   |                     |
| 4.0                                    |                                                                                                        | N/A                       | no recovery  |                   |                   |                   |                     |
|                                        |                                                                                                        | 5100 0.0                  | 2.0 / 2.0    | 4.0-4.5 1330      | 3                 | SLD 72978 1330    |                     |
|                                        |                                                                                                        | 5000 0.0                  |              | 4.5-5.0 1332      | 5                 |                   |                     |
| 5.0                                    |                                                                                                        | 4500 0.0                  |              | 5.5-6.0 1336      | 7                 |                   |                     |
|                                        |                                                                                                        | 4500 0.0                  |              |                   | 6                 |                   |                     |
| 6.0                                    | trace fine sand                                                                                        |                           |              |                   |                   |                   |                     |
| 7.0                                    | TD: 6.0' BG                                                                                            |                           |              |                   |                   |                   | Background.         |
|                                        | 1-21-02                                                                                                |                           |              |                   |                   |                   | NaF 4662            |
|                                        | 1330                                                                                                   |                           |              |                   |                   |                   | PIB: 0.0            |
| 8.0                                    |                                                                                                        |                           |              |                   |                   |                   | Backfilled          |
|                                        |                                                                                                        |                           |              |                   |                   |                   | boring w/           |
|                                        |                                                                                                        |                           |              |                   |                   |                   | 3.0 bags of         |
|                                        |                                                                                                        |                           |              |                   |                   |                   | portlandite         |
|                                        |                                                                                                        |                           |              |                   |                   |                   | chips.              |
| 9.0                                    |                                                                                                        |                           |              |                   |                   |                   | * Sampler           |
|                                        |                                                                                                        |                           |              |                   |                   |                   | will be can         |
|                                        |                                                                                                        |                           |              |                   |                   |                   | filled w/ gas       |
|                                        |                                                                                                        |                           |              |                   |                   |                   | propagation         |
| 10.0                                   |                                                                                                        |                           |              |                   |                   |                   | See attached sheet. |

RADIOLOGICAL SURVEY FORM

Sample ID SLD 72975 Date: 1-21-03

p 1 of 1

Instrument #1 Background 4662 Instrument #2 Background 4601 cpm

Count rate of Empty Pan: Beta 91 cpm

| Sample Depth<br>(Inches) | Field Scan of<br>Spoon<br>(Instrument #1) in<br>cpm   | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity<br>in Bag in<br>cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-------------------------------------------------------|-------------------------------------------------------|----------------------------------|------------------------------------|----------|
|                          |                                                       |                                                       |                                  | Gross Beta                         | Net Beta |
| 0-6                      | 4300                                                  | 4263                                                  | -338                             | 106                                | 15       |
| 6-12                     | 4600                                                  | 4436                                                  | -165                             | 104                                | 13       |
| 12-18                    | 4500                                                  | 4917                                                  | 316                              | 131                                | 40       |
| 18-24                    | 4600                                                  | 5031                                                  | 430                              | 140                                | 49       |
| 24-30                    | 5000                                                  | 4781                                                  | 180                              | 131                                | 40       |
| 30-36                    | 5000                                                  | 4924                                                  | 323                              | 152                                | 61       |
| 36-42                    | 4800                                                  | 4917                                                  | 316                              | 142                                | 51       |
| 42-48                    | 4800                                                  | 4817                                                  | 216                              | 143                                | 52       |
| 48-54                    | <sup>5100</sup><br><del>5000</del> <sub>1-21-03</sub> | 4878                                                  | 277                              | 125                                | 34       |
| 54-60                    | 5000                                                  | 4842                                                  | 241                              | 157                                | 66       |
| 60-66                    | 4500                                                  | 4516                                                  | -85                              | 162                                | 71       |
| 66-72                    | 4500                                                  | 4768                                                  | 167                              | 136                                | 45       |

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |                 |  | DISTRICT <b>St. Louis</b>                                                  |                 | HOLE NUMBER <b>SLD 72979</b> |     |                                            |     |                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |                 |                 |                 |   |   |   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|--|----------------------------------------------------------------------------|-----------------|------------------------------|-----|--------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-----------------|-----------------|-----------------|---|---|---|
| 1. COMPANY NAME<br><b>Shaw E &amp; I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |                 |  | 2. DRILLING SUBCONTRACTOR<br><b>MES, Inc.</b>                              |                 | SHEET <b>1</b> OF <b>2</b>   |     |                                            |     |                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |                 |                 |                 |   |   |   |
| 3. PROJECT<br><b>FUSRAP/SLDS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |                 |  | 4. LOCATION<br><b>PSC Metals North Tract V.P.</b>                          |                 |                              |     |                                            |     |                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |                 |                 |                 |   |   |   |
| 5. NAME OF DRILLER<br><b>Chris Anthony</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |                 |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><b>Diedrich D-120</b>            |                 |                              |     |                                            |     |                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |                 |                 |                 |   |   |   |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><b>Diedrich D-120<br/>using 4" HSA and<br/>3" x 2" split spoon.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |                 |  | 8. HOLE LOCATION<br><b>See location sketch</b>                             |                 |                              |     |                                            |     |                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |                 |                 |                 |   |   |   |
| 9. SURFACE ELEVATION<br><b>N/A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |                 |  | 10. DATE STARTED<br><b>1-14-03</b>                                         |                 |                              |     |                                            |     |                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |                 |                 |                 |   |   |   |
| 11. DATE COMPLETED<br><b>1-14-03</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |                 |  | 12. OVERBURDEN THICKNESS<br><b>N/A</b>                                     |                 |                              |     |                                            |     |                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |                 |                 |                 |   |   |   |
| 13. DEPTH DRILLED INTO ROCK<br><b>N/A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |                 |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br><b>N/A</b>                            |                 |                              |     |                                            |     |                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |                 |                 |                 |   |   |   |
| 14. TOTAL DEPTH OF HOLE<br><b>6.0 FT BGS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |                 |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><b>N/A</b> |                 |                              |     |                                            |     |                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |                 |                 |                 |   |   |   |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><b>N/A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |                 |  | 18. GEOTECHNICAL SAMPLES                                                   |                 |                              |     |                                            |     |                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |                 |                 |                 |   |   |   |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%; text-align: center;">DISTURBED</td> <td style="width:33%; text-align: center;">UNDISTURBED</td> </tr> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> </table>                                                                                                                                                                                                                                                                                                                                                                              |                 |                 |  | DISTURBED                                                                  | UNDISTURBED     | 0                            | 0   | 19. TOTAL NUMBER OF CORE BORES<br><b>0</b> |     |                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |                 |                 |                 |   |   |   |
| DISTURBED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | UNDISTURBED     |                 |  |                                                                            |                 |                              |     |                                            |     |                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |                 |                 |                 |   |   |   |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0               |                 |  |                                                                            |                 |                              |     |                                            |     |                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |                 |                 |                 |   |   |   |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |                 |  | 21. TOTAL CORE RECOVERY                                                    |                 |                              |     |                                            |     |                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |                 |                 |                 |   |   |   |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%; text-align: center;">VOC</td> <td style="width:33%; text-align: center;">METALS</td> <td style="width:33%; text-align: center;">OTHER (SPECIFY)</td> </tr> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">RAD</td> </tr> </table>                                                                                                                                                                                                                                                                                |                 |                 |  | VOC                                                                        | METALS          | OTHER (SPECIFY)              | 0   | 0                                          | RAD | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%; text-align: center;">OTHER (SPECIFY)</td> <td style="width:33%; text-align: center;">OTHER (SPECIFY)</td> <td style="width:33%; text-align: center;">OTHER (SPECIFY)</td> </tr> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> </table> |  |  |  | OTHER (SPECIFY) | OTHER (SPECIFY) | OTHER (SPECIFY) | 0 | 0 | 0 |
| VOC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | METALS          | OTHER (SPECIFY) |  |                                                                            |                 |                              |     |                                            |     |                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |                 |                 |                 |   |   |   |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0               | RAD             |  |                                                                            |                 |                              |     |                                            |     |                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |                 |                 |                 |   |   |   |
| OTHER (SPECIFY)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | OTHER (SPECIFY) | OTHER (SPECIFY) |  |                                                                            |                 |                              |     |                                            |     |                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |                 |                 |                 |   |   |   |
| 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0               | 0               |  |                                                                            |                 |                              |     |                                            |     |                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |                 |                 |                 |   |   |   |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |                 |  | 23. SIGNATURE OF INSPECTOR                                                 |                 |                              |     |                                            |     |                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |                 |                 |                 |   |   |   |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%; text-align: center;">BACKFILLED</td> <td style="width:33%; text-align: center;">MONITORING WELL</td> <td style="width:33%; text-align: center;">OTHER (SPECIFY)</td> </tr> <tr> <td style="text-align: center;">Yes</td> <td style="text-align: center;">N/A</td> <td style="text-align: center;">N/A</td> </tr> </table>                                                                                                                                                                                                                                                            |                 |                 |  | BACKFILLED                                                                 | MONITORING WELL | OTHER (SPECIFY)              | Yes | N/A                                        | N/A |                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |                 |                 |                 |   |   |   |
| BACKFILLED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | MONITORING WELL | OTHER (SPECIFY) |  |                                                                            |                 |                              |     |                                            |     |                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |                 |                 |                 |   |   |   |
| Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | N/A             | N/A             |  |                                                                            |                 |                              |     |                                            |     |                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |                 |                 |                 |   |   |   |
| <b>LOCATION SKETCH/COMMENTS</b> Witnessed by: <b>Phillip Statters</b> SCALE: <b>Not to Scale</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |                 |  |                                                                            |                 |                              |     |                                            |     |                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |                 |                 |                 |   |   |   |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p>↑</p> <p>N</p> <p>• HTZ 69 453</p> <p>• HTZ 69 451</p> <p>• SLD 72979</p> <p>• HTZ 69 452</p> <p>• SLD 72983</p> <p>• SLD 72213</p> <div style="border: 1px solid black; width: 150px; height: 100px; position: relative; margin-left: auto;"> <span style="position: absolute; bottom: 5px; left: 5px;">Building</span> </div> </div> <div style="width: 35%; border: 1px solid black; padding: 5px;"> <p><b>Terms used to describe %</b></p> <p>Trace - &lt; 5 %</p> <p>Few - 5 - 10 %</p> <p>Little - 15 - 25 %</p> <p>Some - 20 - 35 %</p> <p>Mostly - 50 - 100 %</p> </div> </div> |                 |                 |  |                                                                            |                 |                              |     |                                            |     |                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |                 |                 |                 |   |   |   |
| PROJECT <b>FUSRAP/SLDS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |                 |  |                                                                            |                 | HOLE NO. <b>SLD 72979</b>    |     |                                            |     |                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |                 |                 |                 |   |   |   |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                                         |                          |              |                           |                                 | SLO 72979    |  |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------|---------------------------|---------------------------------|--------------|--|
| PROJECT FUSRAP/SLDS                    |                                                                                                                                         | INSPECTOR Philip Statter |              | SHEET 2 OF 2              |                                 |              |  |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS (ft)                                                                                                           | WATER SAMPLE NO. (ft)    | RECOVERY (%) | SLT (lb/ft <sup>3</sup> ) | SLT CORR. (lb/ft <sup>3</sup> ) | REMARKS (ft) |  |
| 0.0                                    | SM<br>silty fine sand w/ tan med. to coarse gravel, very dense, poorly graded, lt. brn., dry.                                           | 5700                     | 2.0 / 2.0    | SLO 72979                 | 59                              |              |  |
| 1.0                                    |                                                                                                                                         | 4800                     |              | 72979                     | 61                              |              |  |
| 2.0                                    |                                                                                                                                         | 4700                     |              | 72979                     | 48                              |              |  |
| 3.0                                    | CL<br>silty clay, hard, med. plast., trace cinders, trace slag, trace brick frags, dk. brn. to blk, dry, tan coarse gravel, trace glass | 5100                     | 1.8 / 2.0    | SLO 72980                 | 22                              |              |  |
| 4.0                                    |                                                                                                                                         | 4600                     |              | 72980                     | 5                               |              |  |
| 5.0                                    |                                                                                                                                         | 4500                     |              | 72980                     | 11                              |              |  |
| 6.0                                    | mostly brick frags.                                                                                                                     | 4700                     | 1.5 / 2.0    | SLO 72981                 | 15                              |              |  |
| 7.0                                    |                                                                                                                                         | 4600                     |              | 72981                     | 8                               |              |  |
| 8.0                                    |                                                                                                                                         | 4500                     |              | 72981                     | 4                               |              |  |
| 9.0                                    | clay turning H. gry, trace brick frags.                                                                                                 | 4700                     | no recovery  | SLO 72982                 | 6                               |              |  |
| 10.0                                   |                                                                                                                                         | 4600                     |              | 72982                     | 5                               |              |  |
| 11.0                                   |                                                                                                                                         | 4500                     |              | 72982                     | 6                               |              |  |
| 12.0                                   | few brick frags.                                                                                                                        | N/A                      | no recovery  |                           |                                 |              |  |
| 13.0                                   |                                                                                                                                         | N/A                      |              |                           |                                 |              |  |
| 14.0                                   |                                                                                                                                         | N/A                      |              |                           |                                 |              |  |
| 15.0                                   | TD: 6.0' 865<br>1-14-03<br>1030                                                                                                         |                          |              |                           |                                 |              |  |
| 16.0                                   |                                                                                                                                         |                          |              |                           |                                 |              |  |
| 17.0                                   |                                                                                                                                         |                          |              |                           |                                 |              |  |
| 18.0                                   | Background:<br>NAT: 4,735<br>PID: 0.0<br>Backfilled<br>boring w/<br>3.0 bags<br>of benton-<br>ite chips.                                |                          |              |                           |                                 |              |  |
| 19.0                                   |                                                                                                                                         |                          |              |                           |                                 |              |  |
| 20.0                                   |                                                                                                                                         |                          |              |                           |                                 |              |  |

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                  |  |                                               |  | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER <u>SLD 72983</u>               |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------|--|----------------------------------------------------------------------------|--|--------------------------------------------|--|
| 1. COMPANY NAME<br><u>Shaw E &amp; I</u>                                                                                                                                                                                                                                                                                                                                                           |  | 2. DRILLING SUBCONTRACTOR<br><u>MES, Inc.</u> |  | SHEET <u>1</u> OF <u>2</u> SHEETS                                          |  |                                            |  |
| 3. PROJECT<br><u>FUSRAP / SLDs</u>                                                                                                                                                                                                                                                                                                                                                                 |  |                                               |  | 4. LOCATION<br><u>PSC Metals North Tract V.P.</u>                          |  |                                            |  |
| 5. NAME OF DRILLER<br><u>Chris Anthony</u>                                                                                                                                                                                                                                                                                                                                                         |  |                                               |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>Diedrich D-120</u>            |  |                                            |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Diedrich D-120</u><br><u>using 4 1/4" HSA and</u><br><u>3" x 20" split spoon.</u>                                                                                                                                                                                                                                                      |  |                                               |  | 8. HOLE LOCATION<br><u>See location sketch</u>                             |  |                                            |  |
|                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                               |  | 9. SURFACE ELEVATION<br><u>N/A</u>                                         |  |                                            |  |
| <u>PIB 1-14-03 NAI</u> <u>LUD 172089</u><br><u>to 100 / 100 Cal. Date: 12-30-03 Bkg: 12-30-03</u>                                                                                                                                                                                                                                                                                                  |  |                                               |  | 10. DATE STARTED<br><u>1-14-03</u>                                         |  | 11. DATE COMPLETED<br><u>1-14-03</u>       |  |
| 12. OVERBURDEN THICKNESS<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                             |  |                                               |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                            |  |
| 13. DEPTH DRILLED INTO ROCK<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                          |  |                                               |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                            |  |
| 14. TOTAL DEPTH OF HOLE<br><u>6.0 FT BGS</u>                                                                                                                                                                                                                                                                                                                                                       |  |                                               |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                            |  |
| 18. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                           |  | DISTURBED                                     |  | UNDISTURBED                                                                |  | 19. TOTAL NUMBER OF CORE BOXES<br><u>0</u> |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                  |  | VOC                                           |  | METALS                                                                     |  | OTHER (SPECIFY)                            |  |
|                                                                                                                                                                                                                                                                                                                                                                                                    |  | <u>0</u>                                      |  | <u>0</u>                                                                   |  | <u>0</u>                                   |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                            |  | BACKFILLED                                    |  | MONITORING WELL                                                            |  | OTHER (SPECIFY)                            |  |
| <u>0</u>                                                                                                                                                                                                                                                                                                                                                                                           |  | <u>Yes</u>                                    |  | <u>N/A</u>                                                                 |  | <u>N/A</u>                                 |  |
| 23. SIGNATURE OF INSPECTOR<br><u>Philip Stoffer</u>                                                                                                                                                                                                                                                                                                                                                |  |                                               |  | 21. TOTAL CORE RECOVERY<br><u>0 %</u>                                      |  |                                            |  |
| <div style="display: flex; justify-content: space-between;"> <div> LOCATION SKETCH/COMMENTS<br/> Witnessed by: <u>Philip Stoffer</u> </div> <div> SCALE: <u>Not to Scale</u><br/> Terms used to describe %<br/> Trace - <math>\leq 5\%</math><br/> Few - <math>5-10\%</math><br/> Little - <math>15-25\%</math><br/> Some - <math>20-35\%</math><br/> Mostly - <math>50-100\%</math> </div> </div> |  |                                               |  |                                                                            |  |                                            |  |
| <div style="display: flex; justify-content: space-between;"> <div> </div> <div> <u>HTZ 69453</u><br/> <u>HTZ 69451</u><br/> <u>HTZ 69452</u><br/> <u>SLD 72983</u> </div> </div>                                                                                                                                                                                                                   |  |                                               |  |                                                                            |  |                                            |  |
| PROJECT <u>FUSRAP / SLDs</u>                                                                                                                                                                                                                                                                                                                                                                       |  |                                               |  |                                                                            |  | HOLE NO. <u>SLD 72983</u>                  |  |



| HTRW DRILLING LOG (CONTINUATION SHEET) |             |                                                                                                                                        |                 |                     |                        | WELL NUMBER<br>SLD 72983                                                                              |
|----------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------|------------------------|-------------------------------------------------------------------------------------------------------|
| PROJECT<br>FUSRAP / SLDs               |             | INSPECTOR<br>Phillip Statler                                                                                                           |                 | SHEET 2 of 2 SHEETS |                        |                                                                                                       |
| CLAY<br>RECS                           | DEPTH<br>ft | DESCRIPTION OF MATERIALS<br>(1)                                                                                                        | SPC. NO.<br>(2) | RECOVERY<br>(3)     | WELL CORRECTION<br>(4) | REMARKS<br>(5)                                                                                        |
| SM                                     |             | slty fine sand w/<br>some med. to coarse<br>gravel, very dense, poorly<br>graded, lt. brn. dry.                                        | 4800<br>0.0     | RECOVERY            | SLD<br>72983<br>1103   | (SLD 72983)                                                                                           |
|                                        | 1.0         | slty clay, very stiff<br>to hard, med. plastic,<br>lt. brn. dry, few<br>brick frags, few<br>med. gravel, trace<br>cinders, trace slag. | 4900<br>0.0     | 2.0 / 2.0           |                        | 27                                                                                                    |
|                                        |             |                                                                                                                                        | 5600<br>0.0     |                     |                        | 24                                                                                                    |
|                                        | 2.0         |                                                                                                                                        | 5800<br>0.0     |                     | SLD<br>72984<br>1110   | 35                                                                                                    |
|                                        |             | little X <sub>2</sub> fine sand.                                                                                                       | 5100<br>0.0     | 1.6 / 2.0           |                        | 10                                                                                                    |
|                                        |             |                                                                                                                                        | 4800<br>0.0     |                     |                        | 12                                                                                                    |
| CL                                     | 3.0         |                                                                                                                                        | 4400<br>0.0     |                     | SLD<br>72985<br>1120   | 12                                                                                                    |
|                                        |             | trace glass                                                                                                                            | 5200<br>0.0     | no recovery         |                        | 10                                                                                                    |
|                                        | 4.0         |                                                                                                                                        | 5000<br>0.0     | 1.5 / 2.0           |                        | 8                                                                                                     |
|                                        |             |                                                                                                                                        | 5600<br>0.0     |                     | SLD<br>72986<br>1120   | 8                                                                                                     |
|                                        | 5.0         | mostly brick<br>frags.                                                                                                                 | 4700<br>0.0     |                     |                        | 8                                                                                                     |
|                                        |             |                                                                                                                                        | 4800<br>0.0     | no recovery         |                        | 11                                                                                                    |
|                                        | 6.0         |                                                                                                                                        | N/A             |                     |                        |                                                                                                       |
|                                        | 7.0         | TD: 6.0' B65<br>1-14-03<br>1120                                                                                                        |                 |                     |                        | Background:<br>NaI: 4735<br>PID: 0.0<br>Backfilled<br>boring w/<br>3.0 bags<br>of bentonite<br>chips. |
|                                        | 8.0         |                                                                                                                                        |                 |                     |                        |                                                                                                       |
|                                        | 9.0         |                                                                                                                                        |                 |                     |                        |                                                                                                       |
|                                        | 10.0        |                                                                                                                                        |                 |                     |                        |                                                                                                       |

PROJECT FUSRAP / SLDs

WELL NO. SLD 72983

| HTRW DRILLING LOG                                                                                                                       |  |                          |                                               | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER <u>SLD 72987QC</u>    |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------|-----------------------------------------------|----------------------------------------------------------------------------|--|-----------------------------------|--|
| 1. COMPANY NAME<br><u>Shaw E &amp; I</u>                                                                                                |  |                          | 2. DRILLING SUBCONTRACTOR<br><u>MES, Inc.</u> |                                                                            |  | SHEET <u>1</u> OF <u>2</u> SHEETS |  |
| 3. PROJECT<br><u>FUSRAP/SLDS</u>                                                                                                        |  |                          |                                               | 4. LOCATION<br><u>PSC Metals North Tract V.P.</u>                          |  |                                   |  |
| 5. NAME OF DRILLER<br><u>Chris Anthony</u>                                                                                              |  |                          |                                               | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>Diedrich D-120</u>            |  |                                   |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Diedrich D-120</u><br><u>using FWHSA and</u><br><u>3" x 2" split spoon.</u> |  |                          |                                               | 8. HOLE LOCATION<br><u>See location sketch</u>                             |  |                                   |  |
| 9. SURFACE ELEVATION<br><u>N/A</u>                                                                                                      |  |                          |                                               | 10. DATE STARTED<br><u>1-15-03</u>                                         |  |                                   |  |
| 11. DATE COMPLETED<br><u>1-15-03</u>                                                                                                    |  |                          |                                               | 12. OVERBURDEN THICKNESS<br><u>N/A</u>                                     |  |                                   |  |
| 13. DEPTH DRILLED INTO ROCK<br><u>N/A</u>                                                                                               |  |                          |                                               | 15. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                   |  |
| 14. TOTAL DEPTH OF HOLE<br><u>6.0 FT BGS</u>                                                                                            |  |                          |                                               | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                   |  |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                                                                              |  |                          |                                               | 18. GEOTECHNICAL SAMPLES                                                   |  |                                   |  |
| DISTURBED                                                                                                                               |  | UNDISTURBED              |                                               | 19. TOTAL NUMBER OF CORE BOXES                                             |  | 20. SAMPLES FOR CHEMICAL ANALYSIS |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| YES                                                                                                                                     |  | NO                       |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
| NO                                                                                                                                      |  | YES                      |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| <input type="checkbox"/>                                                                                                                |  | <input type="checkbox"/> |                                               | <input type="checkbox"/>                                                   |  | <input type="checkbox"/>          |  |
|                                                                                                                                         |  |                          |                                               |                                                                            |  |                                   |  |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                         |                             |                 |                 |                 | HOLE NUMBER<br>SLD 72987 RC |                        |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------|-----------------|-----------------|-----------------------------|------------------------|
| PROJECT<br>FUSRAP / SLDs               |                                                                                                                         | INSPECTOR<br>Philip Staller |                 | SHEET<br>2 of 2 |                 | SHEET                       |                        |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS<br>(ft)                                                                                        | RECOVERY<br>(ft)            | RECOVERY<br>(%) | REMARKS<br>(ft) | REMARKS<br>(ft) | REMARKS<br>(ft)             | REMARKS<br>(ft)        |
| 1.0                                    | Silty fine sand w/ some med. gravel, med dense to very dense, poorly graded, dk brn to blk, few cinders, few slag, etc. | 4,900<br>0.0                | 2.0 / 2.0       | 0.0-0.5<br>1136 | 104             | SLD 72987-6<br>1136         | (1136)<br>(1136)<br>Pg |
| 2.0                                    | mostly brick frags.                                                                                                     | 4,600<br>0.0                | 1.6 / 2.0       | 0.5-1.0<br>1320 | 95              |                             |                        |
| 3.0                                    | cinders and slag increasing.                                                                                            | 4,600<br>0.0                |                 | 1.0-1.5<br>1325 | 63              |                             |                        |
| 4.0                                    |                                                                                                                         | 4,800<br>0.0                |                 | 1.5-2.0<br>1330 | 24              | SLD 72988<br>1330           |                        |
| 5.0                                    | Silty clay, med stiff, med. plast, dk brn, moist, trace brick frags, trace glass.                                       | 4,600<br>0.0                | 1.6 / 2.0       | 2.0-2.5<br>1340 | 23              |                             |                        |
| 6.0                                    |                                                                                                                         | 4,900<br>0.0                |                 | 2.5-3.0<br>1345 | 19              |                             |                        |
| 7.0                                    |                                                                                                                         | 5,300<br>0.0                |                 | 3.0-3.5<br>1350 | 25              | SLD 72989<br>1350           |                        |
| 8.0                                    |                                                                                                                         | N/A<br>N/A                  | no recovery     | N/A             | 6               |                             |                        |
| 9.0                                    |                                                                                                                         | 4,800<br>0.0                | 1.6 / 2.0       | 4.0-4.5<br>1400 | 5               |                             |                        |
| 10.0                                   |                                                                                                                         | 5,500<br>0.0                |                 | 4.5-5.0<br>1405 | 11              |                             |                        |
| 11.0                                   |                                                                                                                         | 5,800<br>0.0                |                 | 5.0-5.5<br>1410 | 6               | SLD 72990<br>1410           |                        |
| 12.0                                   |                                                                                                                         | N/A<br>N/A                  | no recovery     |                 | 6               |                             |                        |
| 13.0                                   | TD: 6.0' 865<br>1-15-03<br>1330                                                                                         |                             |                 |                 |                 |                             |                        |
| 14.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 15.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 16.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 17.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 18.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 19.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 20.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 21.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 22.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 23.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 24.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 25.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 26.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 27.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 28.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 29.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 30.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 31.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 32.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 33.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 34.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 35.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 36.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 37.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 38.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 39.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 40.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 41.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 42.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 43.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 44.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 45.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 46.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 47.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 48.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 49.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 50.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 51.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 52.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 53.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 54.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 55.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 56.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 57.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 58.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 59.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 60.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 61.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 62.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 63.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 64.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 65.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 66.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 67.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 68.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 69.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 70.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 71.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 72.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 73.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 74.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 75.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 76.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 77.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 78.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 79.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 80.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 81.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 82.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 83.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 84.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 85.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 86.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 87.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 88.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 89.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 90.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 91.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 92.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 93.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 94.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 95.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 96.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 97.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 98.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 99.0                                   |                                                                                                                         |                             |                 |                 |                 |                             |                        |
| 100.0                                  |                                                                                                                         |                             |                 |                 |                 |                             |                        |

RADIOLOGICAL SURVEY FORM

Survey Number \_\_\_\_\_

Background Reading: 4685 cpm

Count rate of Empty Pan: Beta 274 cpm Alpha 0 cpm

Boring Number SLD72987

| Sample ID | Sample Depth (inches) | Activity in Bag (cpm) | Gas Proportional Count rate (cpm) |       |
|-----------|-----------------------|-----------------------|-----------------------------------|-------|
|           |                       |                       | Beta                              | Alpha |
| SLD 72987 | 0-6                   | 3987                  | 86                                | 0     |
| ↓         | 6-12                  | 4017                  | 98                                | 1     |
| ↓         | 12-18                 | 4436                  | 109                               | 4     |
| ↓         | 18-24                 | 4732                  | 119                               | 2     |
| ↓         | 24-30                 | 5002                  | 133                               | 0     |
| ↓         | 30-36                 | 5095                  | 128                               | 2     |
| ↓         | 36-42                 | 5185                  | 130                               | 0     |
| N/A       | 42-48                 | No Recovery           |                                   |       |
| SLD72987  | 48-54                 | 5314                  | 144                               | 2     |
| ↓         | 54-60                 | 5247                  | 125                               | 3     |
| ↓         | 60-66                 | 5014                  | 143                               | 0     |
| N/A       | 66-72                 | N/A                   | N/A                               | N/A   |

Boring Number N/A

| Sample ID | Sample Depth (inches) | Activity in Bag (cpm) | Gas Proportional Count rate (cpm) |       |
|-----------|-----------------------|-----------------------|-----------------------------------|-------|
|           |                       |                       | Beta                              | Alpha |
|           | 0-6                   |                       |                                   |       |
|           | 6-12                  |                       |                                   |       |
|           | 12-18                 |                       |                                   |       |
|           | 18-24                 |                       |                                   |       |
|           | 24-30                 |                       |                                   |       |
|           | 30-36                 |                       |                                   |       |
|           | 36-42                 |                       |                                   |       |
|           | 42-48                 |                       |                                   |       |
|           | 48-54                 |                       |                                   |       |
|           | 54-60                 |                       |                                   |       |
|           | 60-66                 |                       |                                   |       |
|           | 66-72                 |                       |                                   |       |

**IT Corporation**  
**FUSRAP SLDS 775575**

**RADIOLOGICAL SURVEY FORM**

Survey Number \_\_\_\_\_

Background Reading: 4685 cpm

Count rate of Empty Pan: Beta 77cpm Alpha 0cpm

Boring Number SLD72987

| Sample ID | Sample Depth (inches) | Activity in Bag (cpm) | Gas Proportional Count rate (cpm) |       |
|-----------|-----------------------|-----------------------|-----------------------------------|-------|
|           |                       |                       | Beta                              | Alpha |
| SLD 72987 | 0-6                   | 3987                  | 86                                | 0     |
| ↓         | 6-12                  | 4017                  | 98                                | 1     |
| ↓         | 12-18                 | 4436                  | 109                               | 4     |
| ↓         | 18-24                 | 4732                  | 119                               | 2     |
| ↓         | 24-30                 | 5002                  | 133                               | 0     |
| ↓         | 30-36                 | 5095                  | 128                               | 2     |
| ↓         | 36-42                 | 5185                  | 130                               | 0     |
| N/A       | 42-48                 | No Recovery           |                                   |       |
| SLD72987  | 48-54                 | 5314                  | 144                               | 2     |
| ↓         | 54-60                 | 5247                  | 125                               | 3     |
| ↓         | 60-66                 | 5014                  | 143                               | 0     |
| N/A       | 66-72                 | N/A                   | N/A                               | N/A   |

Boring Number N/A

| Sample ID | Sample Depth (inches) | Activity in Bag (cpm) | Gas Proportional Count rate (cpm) |       |
|-----------|-----------------------|-----------------------|-----------------------------------|-------|
|           |                       |                       | Beta                              | Alpha |
|           | 0-6                   |                       |                                   |       |
|           | 6-12                  |                       |                                   |       |
|           | 12-18                 |                       |                                   |       |
|           | 18-24                 |                       |                                   |       |
|           | 24-30                 |                       |                                   |       |
|           | 30-36                 |                       |                                   |       |
|           | 36-42                 |                       |                                   |       |
|           | 42-48                 |                       |                                   |       |
|           | 48-54                 |                       |                                   |       |
|           | 54-60                 |                       |                                   |       |
|           | 60-66                 |                       |                                   |       |
|           | 66-72                 |                       |                                   |       |

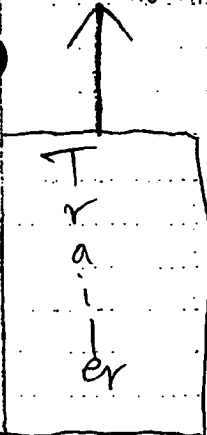
| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                       |  |                                               |  | DISTRICT <b>St. Louis</b>                                                  |                            | HOLE NUMBER <b>SLD 72987</b>         |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------|--|----------------------------------------------------------------------------|----------------------------|--------------------------------------|--|
| 1. COMPANY NAME<br><b>Shaw E &amp; I</b>                                                                                                                                                                                                                                                                                                                                                                |  | 2. DRILLING SUBCONTRACTOR<br><b>MES, Inc.</b> |  |                                                                            | SHEET <b>1</b> OF <b>2</b> |                                      |  |
| 3. PROJECT<br><b>FUSRAP/SLDS</b>                                                                                                                                                                                                                                                                                                                                                                        |  |                                               |  | 4. LOCATION<br><b>PSC Metals North Tract V.P.</b>                          |                            |                                      |  |
| 5. NAME OF DRILLER<br><b>Chris Anthony</b>                                                                                                                                                                                                                                                                                                                                                              |  |                                               |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><b>Diedrich D-120</b>            |                            |                                      |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><b>Diedrich D-120<br/>using 8" HSA and<br/>3" x 2" split spear.</b>                                                                                                                                                                                                                                                                            |  |                                               |  | 8. HOLE LOCATION<br><b>See location sketch</b>                             |                            |                                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                               |  | 9. SURFACE ELEVATION<br><b>N/A</b>                                         |                            |                                      |  |
| <b>PID 1-15-03 NAT LUD 1720W</b><br><b>Cal. Date: 4-15-03 Bkg: 5060</b>                                                                                                                                                                                                                                                                                                                                 |  |                                               |  | 10. DATE STARTED<br><b>1-15-03</b>                                         |                            | 11. DATE COMPLETED<br><b>1-15-03</b> |  |
| 12. OVERBURDEN THICKNESS<br><b>N/A</b>                                                                                                                                                                                                                                                                                                                                                                  |  |                                               |  | 15. DEPTH GROUNDWATER ENCOUNTERED                                          |                            |                                      |  |
| 13. DEPTH DRILLED INTO ROCK<br><b>N/A</b>                                                                                                                                                                                                                                                                                                                                                               |  |                                               |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><b>N/A</b> |                            |                                      |  |
| 14. TOTAL DEPTH OF HOLE<br><b>2.0 FT BGS</b>                                                                                                                                                                                                                                                                                                                                                            |  |                                               |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><b>N/A</b>                 |                            |                                      |  |
| 18. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                |  | DISTURBED                                     |  | UNDISTURBED                                                                |                            | 19. TOTAL NUMBER OF CORE BOXES       |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                       |  | VOC                                           |  | METALS                                                                     |                            | OTHER (SPECIFY)                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                               |  |                                                                            |                            | 21. TOTAL CORE RECOVERY <b>0</b> %   |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                 |  | BACKFILLED                                    |  | MONITORING WELL                                                            |                            | OTHER (SPECIFY)                      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                         |  | Yes                                           |  | N/A                                                                        |                            | N/A                                  |  |
| 23. SIGNATURE OF INSPECTOR<br><i>Philip M. Statler</i>                                                                                                                                                                                                                                                                                                                                                  |  |                                               |  | SCALE: Not to Scale                                                        |                            |                                      |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                                                                                                                                |  |                                               |  |                                                                            |                            |                                      |  |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Witnessed by: <i>Philip M. Statler</i></p> <p>↑</p> <p>N</p> </div> <div style="width: 50%; border: 1px solid black; padding: 5px;"> <p>Terms used to describe %</p> <p>Trace - &lt; 5 %</p> <p>Few - 5 - 10 %</p> <p>Little - 15 - 25 %</p> <p>Some - 20 - 35 %</p> <p>Mostly - 50 - 100 %</p> </div> </div> |  |                                               |  |                                                                            |                            |                                      |  |
| <p>Boring drilled June 83</p> <p>to ensure sufficient sample volume for Bd sample.</p> <p style="text-align: right;">SLD 72987</p> <p style="text-align: right;">SLD 72987 (old) moved boring to Pps East</p> <p style="text-align: right;">SLD 72938</p> <div style="border: 1px solid black; width: 150px; height: 50px; margin: 10px auto; text-align: center; line-height: 50px;">Bldg.</div>       |  |                                               |  |                                                                            |                            |                                      |  |
| PROJECT <b>FUSRAP/SLDS</b>                                                                                                                                                                                                                                                                                                                                                                              |  |                                               |  |                                                                            |                            | HOLE NO. <b>SLD 72987</b>            |  |

ENG FORM 5056A-R, AUG 94







| HTRW DRILLING LOG                                                                                                    |  |                                     |  | ST. LOUIS                                                                                                                              |  | HOLE NUMBER<br>SLD 72995            |  |
|----------------------------------------------------------------------------------------------------------------------|--|-------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------|--|
| 1. COMPANY NAME<br>Shaw F & I                                                                                        |  | 2. DRILLING CONTRACTOR<br>MES, Inc. |  |                                                                                                                                        |  | 3. SHEET<br>1 of 2                  |  |
| 4. PROJECT<br>FUSRAP / SLDs                                                                                          |  |                                     |  | 5. LOCATION<br>PSC Metals North Tract V.P.                                                                                             |  |                                     |  |
| 6. NAME OF WELLER<br>Chris Anthony                                                                                   |  |                                     |  | 7. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120                                                                               |  |                                     |  |
| 8. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using 3/4" HSA and<br>3" x 2" split spoon |  |                                     |  | 9. HOLE LOCATION<br>See location sketch                                                                                                |  |                                     |  |
|                                                                                                                      |  |                                     |  | 10. SURFACE ELEVATION<br>N/A                                                                                                           |  |                                     |  |
| 11. PEO 11-25-02 NAI LUD 172040<br>to 100/100 Core Date 4-7-02 BKG = \$300                                           |  |                                     |  | 12. DATE STARTED<br>11-25-02                                                                                                           |  | 13. DATE COMPLETED<br>11-25-02      |  |
| 14. DEPTH DRILLED (FEET)<br>N/A                                                                                      |  |                                     |  | 15. DEPTH TO WATER (FEET) ENCOUNTERED                                                                                                  |  |                                     |  |
| 16. DEPTH DRILLED INTO ROCK<br>N/A                                                                                   |  |                                     |  | 17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A                                                                    |  |                                     |  |
| 18. TOTAL DEPTH OF HOLE<br>6.0 FT BGS                                                                                |  |                                     |  | 19. OTHER WATER LEVEL MEASUREMENTS, SPECIFY<br>N/A                                                                                     |  |                                     |  |
| 20. TEST-THICKNESS SAMPLE<br>Ø                                                                                       |  | 21. TESTED<br>Ø                     |  | 22. ADJUSTED<br>Ø                                                                                                                      |  | 23. TOTAL NUMBER OF CORE BOXES<br>Ø |  |
| 24. SAMPLES FOR CHEMICAL ANALYSIS                                                                                    |  | 25. TYPE                            |  | 26. ANALYSIS                                                                                                                           |  | 27. OTHER SPECIFY                   |  |
| Ø                                                                                                                    |  | Ø                                   |  | Ø                                                                                                                                      |  | Ø                                   |  |
| 28. DEPOSITION OF SOIL                                                                                               |  | 29. SAMPLES                         |  | 30. MONITORING VEL.                                                                                                                    |  | 31. OTHER SPECIFY                   |  |
| Ø                                                                                                                    |  | Yes                                 |  | N/A                                                                                                                                    |  | N/A                                 |  |
| 32. LOCATION SKETCH / COMMENTS<br>North.                                                                             |  |                                     |  | 33. WITNESSED BY: Phillip Statler<br>(PDI boring)<br>(used for de<br>lineation of<br>JER HTZ 69417)<br>PS                              |  |                                     |  |
|                                    |  |                                     |  | SCALE: Not to Scale<br>Terms used to describe %<br>Trace - < 5%<br>Few - 5-10%<br>Little - 15-25%<br>Some - 20-35%<br>Mostly - 50-100% |  |                                     |  |
|                                                                                                                      |  |                                     |  |                                                                                                                                        |  |                                     |  |
| SLD 72991<br>15' HTZ 69417<br>SLD 72995<br>SLD 73003<br>SLD 72999                                                    |  |                                     |  |                                                                                                                                        |  |                                     |  |
| 34. PROJECT<br>FUSRAP / SLDs                                                                                         |  |                                     |  |                                                                                                                                        |  | 35. HOLE NO.<br>SLD 72995           |  |

EM 1010-1-2000  
1 Nov 98

| HTRW DRILLING LOG |                                                                                                         | CONTINUATION SHEET |             | HOLE NUMBER             |            |
|-------------------|---------------------------------------------------------------------------------------------------------|--------------------|-------------|-------------------------|------------|
| PROJECT           |                                                                                                         | INSPECTOR          |             | DATE                    |            |
| EUS RAP/SLOS      |                                                                                                         | Phillip Statler    |             | SLP 72995               |            |
| DEPTH             | DESCRIPTION OF MATERIALS                                                                                | REMARKS            | RECOVERY    | SLP                     | BLOW COUNT |
| 10.0              | Silty fine sand w/ some med. gravel, med. dense to very dense, poorly graded, lt. brn. to dk. brn., dry |                    | 2.0 / 2.0   | SLP 72995 11-25-02 1416 | 43         |
| 11.0              |                                                                                                         |                    |             |                         | 35         |
| 12.0              |                                                                                                         |                    |             |                         | 108        |
| 13.0              | some cinders and some slag, trace brick frags                                                           |                    |             | SLP 72996 11-25-02 1415 | 69         |
| 14.0              |                                                                                                         |                    | 1.7 / 2.0   |                         | 14         |
| 15.0              |                                                                                                         |                    |             |                         | 13         |
| 16.0              |                                                                                                         |                    |             | SLP 72997 11-25-02 1420 | 11         |
| 17.0              |                                                                                                         |                    | no recovery |                         | 8          |
| 18.0              |                                                                                                         |                    |             |                         | 8          |
| 19.0              |                                                                                                         |                    | 1.8 / 2.0   | SLP 72998 11-25-02 1430 | 9          |
| 20.0              |                                                                                                         |                    |             |                         | 5          |
| 21.0              | Timestone frag.                                                                                         |                    |             |                         | 7          |
| 22.0              |                                                                                                         |                    | no recovery |                         |            |
| 23.0              | TD: 6.0' BGS                                                                                            |                    |             |                         |            |
| 24.0              | 11-25-02                                                                                                |                    |             |                         |            |
| 25.0              | 1415                                                                                                    |                    |             |                         |            |
| 26.0              |                                                                                                         |                    |             |                         |            |
| 27.0              |                                                                                                         |                    |             |                         |            |
| 28.0              |                                                                                                         |                    |             |                         |            |
| 29.0              |                                                                                                         |                    |             |                         |            |
| 30.0              |                                                                                                         |                    |             |                         |            |
| 31.0              |                                                                                                         |                    |             |                         |            |
| 32.0              |                                                                                                         |                    |             |                         |            |
| 33.0              |                                                                                                         |                    |             |                         |            |
| 34.0              |                                                                                                         |                    |             |                         |            |
| 35.0              |                                                                                                         |                    |             |                         |            |
| 36.0              |                                                                                                         |                    |             |                         |            |
| 37.0              |                                                                                                         |                    |             |                         |            |
| 38.0              |                                                                                                         |                    |             |                         |            |
| 39.0              |                                                                                                         |                    |             |                         |            |
| 40.0              |                                                                                                         |                    |             |                         |            |

Background:  
NAT: 5300  
PIDs 0.0  
Backfilled  
boring w/  
3.0 bags of  
bentonite  
chips.

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                |  |                                        |  | DISTRICT St. Louis                                                  |              | HOLE NUMBER SLD 72999 |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------|--|---------------------------------------------------------------------|--------------|-----------------------|--|
| 1. COMPANY NAME<br>Shaw E & I                                                                                                                                                                                                                                                                    |  | 2. DRILLING SUBCONTRACTOR<br>MES, Inc. |  |                                                                     | SHEET 1 OF 2 |                       |  |
| 3. PROJECT<br>FUSRAP/SLDS                                                                                                                                                                                                                                                                        |  |                                        |  | 4. LOCATION<br>PSC Metals North Tract V.P.                          |              |                       |  |
| 5. NAME OF DRILLER<br>Chris Anthony                                                                                                                                                                                                                                                              |  |                                        |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120            |              |                       |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120<br>using 3/4" HSA and<br>3" x 2" split spoon.                                                                                                                                                                            |  |                                        |  | 8. HOLE LOCATION<br>See location sketch                             |              |                       |  |
| 9. SURFACE ELEVATION<br>N/A                                                                                                                                                                                                                                                                      |  |                                        |  | 10. DATE STARTED<br>1-28-03                                         |              |                       |  |
| 11. DATE COMPLETED<br>1-28-03                                                                                                                                                                                                                                                                    |  |                                        |  | 12. OVERBURDEN THICKNESS<br>N/A                                     |              |                       |  |
| 13. DEPTH DRILLED INTO ROCK<br>N/A                                                                                                                                                                                                                                                               |  |                                        |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br>N/A                            |              |                       |  |
| 14. TOTAL DEPTH OF HOLE<br>6.0 FT BGS                                                                                                                                                                                                                                                            |  |                                        |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A |              |                       |  |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                                                                                                                                                                                                                                              |  |                                        |  | 18. GEOTECHNICAL SAMPLES                                            |              |                       |  |
| DISTURBED                                                                                                                                                                                                                                                                                        |  | UNDISTURBED                            |  | 19. TOTAL NUMBER OF CORE BOXES                                      |              |                       |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                |  | VOC                                    |  | METALS                                                              |              | OTHER (SPECIFY)       |  |
| 21. TOTAL CORE RECOVERY                                                                                                                                                                                                                                                                          |  | BACKFILLED                             |  | MONITORING WELL                                                     |              | OTHER (SPECIFY)       |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                          |  | Yes                                    |  | N/A                                                                 |              | N/A                   |  |
| 23. SIGNATURE OF INSPECTOR                                                                                                                                                                                                                                                                       |  | Phillip N. Statter                     |  | SCALE: Not to Scale                                                 |              |                       |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                                                                                                                                                         |  |                                        |  |                                                                     |              |                       |  |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> </div> <div style="width: 35%;"> <p>Terms used to describe %</p> <p>Trace - &lt; 5 %</p> <p>Few - 5 - 10 %</p> <p>Little - 15 - 25 %</p> <p>Some - 20 - 35 %</p> <p>Mostly - 50 - 100 %</p> </div> </div> |  |                                        |  |                                                                     |              |                       |  |
| PROJECT FUSRAP/SLDS                                                                                                                                                                                                                                                                              |  |                                        |  | HOLE NO. SLD 72999                                                  |              |                       |  |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                          |                              |                   |                            |                      | HOLE NUMBER<br>SLD 72999 |
|----------------------------------------|------------------------------------------------------------------------------------------|------------------------------|-------------------|----------------------------|----------------------|--------------------------|
| PROJECT<br>FUSRAP / SLD5               |                                                                                          | INSPECTOR<br>Phillip Statler |                   | SHEET<br>2 of 2 SHEETS     |                      |                          |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS<br>(1)                                                          | RECOVERY<br>(2)              | GRAIN SIZE<br>(3) | SLOW COUNT<br>(4)          | REMARKS<br>(5)       |                          |
| 0.0                                    | silty fine gr. clay, med. sh. med. plant, dk. brn. to blk, dry, some cinders, some slag. | 4400<br>0.0                  | RECOVERY          | 0.0-2.5<br>1-28-03<br>1620 | SLD<br>72999<br>1620 |                          |
| 1.0                                    |                                                                                          | 4900<br>0.0                  | 2.0               | 2.5-4.0<br>1623            | 29                   |                          |
| 2.0                                    | mostly cinders,<br>mostly slag                                                           | 4900<br>0.0                  | 2.0               | 1.0-1.5<br>1625            | SLD<br>73000<br>1625 |                          |
| 3.0                                    |                                                                                          | 4900<br>0.0                  |                   | 1.5-2.0<br>1620            | 6                    |                          |
| 4.0                                    |                                                                                          | 4800<br>0.0                  | 1.3               | 2.0-2.5<br>1633            | 7                    |                          |
| 5.0                                    |                                                                                          | 4900<br>0.0                  | 2.0               | 2.5-3.3<br>1635            | SLD<br>73001<br>1635 |                          |
| 6.0                                    |                                                                                          | 4900<br>0.0                  |                   |                            | 2                    |                          |
| 7.0                                    |                                                                                          | N/A<br>N/A                   | no recovery       |                            | 2                    |                          |
| 8.0                                    | Clay turning H. brn.                                                                     | 4400<br>0.0                  | 2.0               | 4.0-4.5<br>1637            | 2                    |                          |
| 9.0                                    |                                                                                          | 4900<br>0.0                  | 2.0               | 4.5-5.0<br>1640            | SLD<br>73002<br>1640 |                          |
| 10.0                                   |                                                                                          | 5000<br>0.0                  |                   | 5.0-5.5<br>1643            | 2                    |                          |
| 11.0                                   |                                                                                          | 4700<br>0.0                  |                   | 5.5-6.0<br>1645            | 2                    |                          |
| 12.0                                   | TD: 6.0' BGS<br>1-28-03<br>1630                                                          |                              |                   |                            |                      |                          |
| 13.0                                   |                                                                                          |                              |                   |                            |                      |                          |
| 14.0                                   |                                                                                          |                              |                   |                            |                      |                          |
| 15.0                                   |                                                                                          |                              |                   |                            |                      |                          |
| 16.0                                   |                                                                                          |                              |                   |                            |                      |                          |
| 17.0                                   |                                                                                          |                              |                   |                            |                      |                          |
| 18.0                                   |                                                                                          |                              |                   |                            |                      |                          |
| 19.0                                   |                                                                                          |                              |                   |                            |                      |                          |
| 20.0                                   |                                                                                          |                              |                   |                            |                      |                          |

CL

Background:  
NAT: 5000  
PID: 0.0  
Boring back-filled w/  
30 bags of bentonite chips.  
\* Samples will be counted using gas proportional meter (see attached sheet).

PROJECT  
FUSRAP / SLD5

HOLE NO.  
SLD 72999

IT Corporation  
FUSRAP SLDS 775575

RADIOLOGICAL SURVEY FORM

Sample ID SLA 72999

Date Sample was collected: 1-28-03

Date Sample was analyzed: 1-30-03

PDI

Instrument #1 Background 5000 cpm

Instrument #2 Background 4774

Countrate of Empty Pan: Beta 143 cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Countrate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|-----------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                        | Net Beta |
| 0-6                      | 4600                                                      | -400                              | 4936                                                  | 162                           | 184                               | 41       |
| 6-12                     | 4900                                                      | -100                              | 4757                                                  | -17                           | 185                               | 42       |
| 12-18                    | 4900                                                      | -100                              | 4652                                                  | -122                          | 220                               | 77       |
| 18-24                    | 4900                                                      | -100                              | 4627                                                  | -147                          | 202                               | 59       |
| 24-30                    | 4800                                                      | -200                              | 5089                                                  | 315                           | 214                               | 71       |
| 30-36                    | 4700                                                      | -300                              | 5037                                                  | 263                           | 253                               | 110      |
| 36-42                    | N/A                                                       | N/A                               | N/A                                                   | N/A                           | <sup>1-30-03</sup><br>231 N/A     | N/A      |
| 42-48                    | N/A                                                       | N/A                               | N/A                                                   | N/A                           | <sup>1-30-03</sup><br>2 N/A       | N/A      |
| 48-54                    | 4400                                                      | -600                              | 4736                                                  | -38                           | 231                               | 88       |
| 54-60                    | 4900                                                      | -100                              | 4950                                                  | 176                           | 221                               | 78       |
| 60-66                    | 5000                                                      | 0                                 | 4740                                                  | -34                           | 200                               | 57       |
| 66-72                    | 4700                                                      | -300                              | 4897                                                  | 123                           | 211                               | 68       |

| HTRW DRILLING LOG                                                                                                        |  |                                                                      |  | ST. LOUIS                                                                                                                              |  | SLD 73003                           |  |
|--------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------|--|
| 1. CONTRACT NAME<br>Shaw E & I                                                                                           |  | 2. DRILLING CONTRACTOR<br>MES, Inc.                                  |  | 3. SHEET NUMBER<br>1                                                                                                                   |  | 4. SHEETS<br>2                      |  |
| 5. PROJECT<br>FUSRAP / SLOS                                                                                              |  | 6. LOCATION<br>PSC Metals North Tract V.P.                           |  |                                                                                                                                        |  |                                     |  |
| 7. NAME OF WELL<br>Chris Anthony                                                                                         |  | 8. MANUFACTURER, DESIGNATION OF WELL<br>Diedrich D-120               |  |                                                                                                                                        |  |                                     |  |
| 9. TYPES AND TYPES OF DRILLING AND COMPLETION EQUIPMENT<br>Diedrich D-120<br>using 4 1/4" HSA and<br>3" x 2" split spoon |  | 10. HOLE LOCATION<br>See location sketch                             |  |                                                                                                                                        |  |                                     |  |
| 11. DATE STARTED<br>11-25-02                                                                                             |  | 12. DATE COMPLETED<br>11-25-02                                       |  | 13. SURFACE ELEVATION<br>N/A                                                                                                           |  |                                     |  |
| 14. OVERBURDEN THICKNESS<br>N/A                                                                                          |  | 15. DEPTH TO WATER ENCOUNTERED<br>N/A                                |  |                                                                                                                                        |  |                                     |  |
| 16. DEPTH DRILLED INTO ROCK<br>N/A                                                                                       |  | 17. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETION<br>N/A |  |                                                                                                                                        |  |                                     |  |
| 18. TOTAL DEPTH OF HOLE<br>6.0 FT BGS                                                                                    |  | 19. OTHER WATER LEVEL MEASUREMENTS, SPECIFY<br>N/A                   |  |                                                                                                                                        |  |                                     |  |
| 20. POTENTIAL SAMPLES<br>0                                                                                               |  | 21. DEPTH TO SAMPLE<br>0                                             |  | 22. ADDITIONAL<br>0                                                                                                                    |  | 23. TOTAL NUMBER OF CORE BOXES<br>0 |  |
| 24. SAMPLES FOR CHEMICAL ANALYSIS<br>0                                                                                   |  | 25. SAMPLES FOR MONITORING<br>0                                      |  | 26. OTHER SPECIES<br>RAD                                                                                                               |  | 27. TOTAL CORE RECOVERED<br>0       |  |
| 28. DEPTH OF HOLE<br>0                                                                                                   |  | 29. YES                                                              |  | 30. MONITORING REL<br>N/A                                                                                                              |  | 31. OTHER SPECIES<br>N/A            |  |
| LOCATION SKETCH, COMMENTS<br>North.                                                                                      |  |                                                                      |  | Witnessed By: Phillip Stalter<br>(PDI Boying)<br>(used for delineation<br>of SLPs HTZ 69417)                                           |  |                                     |  |
|                                                                                                                          |  |                                                                      |  | SCALE: NOT TO SCALE<br>Terms used to describe %<br>Trace - < 5%<br>Few - 5-10%<br>Little - 15-25%<br>Some - 20-35%<br>Mostly - 50-100% |  |                                     |  |
| SLD 72999 • SLD 72995<br>HTZ 69417<br>SLD 72999 • 18.5' • SLD 73003                                                      |  |                                                                      |  |                                                                                                                                        |  |                                     |  |
| FUSRAP / SLOS                                                                                                            |  |                                                                      |  | SLD 73003                                                                                                                              |  |                                     |  |

EM 1110-1-1000  
1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                                           |                              |                 |                                  |                     | HOLE NUMBER<br>SLP 73003                                                                                |  |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------|----------------------------------|---------------------|---------------------------------------------------------------------------------------------------------|--|
| PROJECT<br>FUSRAP/SLCS                 |                                                                                                                                           | INSPECTOR<br>Phillip Statter |                 | SHEET<br>2 OF 2                  |                     | SHEET<br>2 OF 2                                                                                         |  |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS                                                                                                                  | WATER<br>LEVEL<br>(ft)       | RECOVERY<br>(%) | SLP<br>73003<br>11-25-02<br>1135 | SLW<br>COST<br>(ft) | REMARKS                                                                                                 |  |
| 1.0                                    | Silty fine sand w/ some med. gravel and few silty clay, mod. dense to very dense, poorly graded, dk. brn.; dry, few cinders and few slag. | 4800<br>0.0                  | 2.0             | SLP 73003 1135                   | 90                  | Diesel odor                                                                                             |  |
|                                        |                                                                                                                                           | 4500<br>0.0                  |                 |                                  | 46                  |                                                                                                         |  |
|                                        |                                                                                                                                           | 4800<br>0.0                  | 2.0             | SLP 73003 1135                   | 83                  |                                                                                                         |  |
|                                        |                                                                                                                                           | 4300<br>0.0                  |                 |                                  | 32                  |                                                                                                         |  |
| 2.0                                    | clay absent, cinders and slag increasing.                                                                                                 | 4500<br>0.0                  |                 |                                  | 17                  |                                                                                                         |  |
|                                        |                                                                                                                                           | 4400<br>0.0                  | 1.8 / 2.0       |                                  | 9                   |                                                                                                         |  |
| 3.0                                    |                                                                                                                                           | 4600<br>0.0                  |                 | SLP 73003 1135                   | 6                   |                                                                                                         |  |
|                                        |                                                                                                                                           | 4300<br>0.0                  | no recovery     |                                  | 6                   |                                                                                                         |  |
| 4.0                                    |                                                                                                                                           | 4700<br>0.0                  | 1.0 / 2.0       | SLP 73003 1135                   | 5                   |                                                                                                         |  |
|                                        |                                                                                                                                           | 4300<br>0.0                  |                 |                                  | 5                   |                                                                                                         |  |
| 5.0                                    |                                                                                                                                           | N/A                          | no recovery     |                                  | 6                   |                                                                                                         |  |
|                                        |                                                                                                                                           | N/A                          | recovery        |                                  | 8                   |                                                                                                         |  |
| 6.0                                    | TD: 6.0' BGs<br>11-25-02<br>1120                                                                                                          |                              |                 |                                  |                     | Background:<br>NaI: 4200<br>PID: 0.0<br>Backfilled boring w/ 3.0 bags of bentonite PS. bentonite chips. |  |
| 7.0                                    |                                                                                                                                           |                              |                 |                                  |                     |                                                                                                         |  |
| 8.0                                    |                                                                                                                                           |                              |                 |                                  |                     |                                                                                                         |  |
| 9.0                                    |                                                                                                                                           |                              |                 |                                  |                     |                                                                                                         |  |
| 10.0                                   |                                                                                                                                           |                              |                 |                                  |                     |                                                                                                         |  |

FUSRAP/SLCS

SLP 73003

ENG FORM 8056A-R, AUG 94



| HTRW DRILLING LOG                                                                                                                                                                                                                                                   |  |                                               |  | DISTRICT <u>St. Louis</u>                                                  |                            | HOLE NUMBER <u>SLD 73007 AC</u>             |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------|--|----------------------------------------------------------------------------|----------------------------|---------------------------------------------|--|
| 1. COMPANY NAME<br><u>Shaw E &amp; I</u>                                                                                                                                                                                                                            |  | 2. DRILLING SUBCONTRACTOR<br><u>MES, Inc.</u> |  |                                                                            | SHEET <u>1</u> OF <u>2</u> |                                             |  |
| 3. PROJECT<br><u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                    |  |                                               |  | 4. LOCATION<br><u>PSC Metals North Tract V.P.</u>                          |                            |                                             |  |
| 5. NAME OF DRILLER<br><u>Chris Anthony</u>                                                                                                                                                                                                                          |  |                                               |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>Diedrich D-120</u>            |                            |                                             |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Diedrich D-120</u><br><u>using 4 1/4" HSA and</u><br><u>3" x 2" split spoon.</u>                                                                                                                        |  |                                               |  | 8. HOLE LOCATION<br><u>See location sketch</u>                             |                            |                                             |  |
| 9. SURFACE ELEVATION<br><u>N/A</u>                                                                                                                                                                                                                                  |  |                                               |  | 10. DATE STARTED<br><u>2-12-03</u>                                         |                            |                                             |  |
| 11. DATE COMPLETED<br><u>2-12-03</u>                                                                                                                                                                                                                                |  |                                               |  | 12. OVERBURDEN THICKNESS<br><u>N/A</u>                                     |                            |                                             |  |
| 13. DEPTH DRILLED INTO ROCK<br><u>N/A</u>                                                                                                                                                                                                                           |  |                                               |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |                            |                                             |  |
| 14. TOTAL DEPTH OF HOLE<br><u>2.0 FT BGS</u>                                                                                                                                                                                                                        |  |                                               |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |                            |                                             |  |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                                                                                                                                                                                                          |  |                                               |  | 18. GEOTECHNICAL SAMPLES                                                   |                            |                                             |  |
| DISTURBED                                                                                                                                                                                                                                                           |  | UNDISTURBED                                   |  | 19. TOTAL NUMBER OF CORE BOXES                                             |                            | 20. SAMPLES FOR CHEMICAL ANALYSIS           |  |
| VOC                                                                                                                                                                                                                                                                 |  | METALS                                        |  | OTHER (SPECIFY)                                                            |                            | OTHER (SPECIFY)                             |  |
| RAD                                                                                                                                                                                                                                                                 |  | OTHER (SPECIFY)                               |  | OTHER (SPECIFY)                                                            |                            | 21. TOTAL CORE RECOVERY %                   |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                             |  | BACKFILLED                                    |  | MONITORING WELL                                                            |                            | 23. SIGNATURE OF INSPECTOR                  |  |
| Yes                                                                                                                                                                                                                                                                 |  | N/A                                           |  | N/A                                                                        |                            | <u>Phillip Statter</u>                      |  |
| LOCATION SKETCH/COMMENTS <u>Witnessed by: Phillip Statter</u> SCALE: <u>Not to Scale</u>                                                                                                                                                                            |  |                                               |  |                                                                            |                            |                                             |  |
| <div style="float: right; border: 1px solid black; padding: 5px; width: 200px;"> Terms used to describe %<br/> Trace - &lt; .5 %<br/> Few - 5 - 10 %<br/> Little - 15 - 25 %<br/> Some - 20 - 35 %<br/> Mostly - 50 - 100 % </div> <div style="clear: both;"></div> |  |                                               |  |                                                                            |                            |                                             |  |
| PROJECT <u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                          |  |                                               |  |                                                                            |                            | HOLE NO. <u>73007 AC</u><br><u>SLD HERE</u> |  |

EM 1110-1-4000  
1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                        |                              |                  |                                  |                    |                                                                       | HOLE NUMBER<br>SLD 730070C |
|----------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------|------------------|----------------------------------|--------------------|-----------------------------------------------------------------------|----------------------------|
| PROJECT<br>FUSRAP / SLDs               |                                                                                                        | INSPECTOR<br>Phillip Statler |                  | SHEET<br>2 OF 2                  |                    | SHEETS                                                                |                            |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS<br>(ft)                                                                       | WATER<br>(ft)                | RECOVERY<br>(ft) | ANALYTICAL<br>SAMPLE NO.<br>(ft) | SLOW COUNT<br>(ft) | REMARKS                                                               |                            |
| 0.0                                    | Silty fine sand w/<br>mostly cinders and<br>slag, loose, poorly<br>graded, dk. brown, to<br>blk., dry. | 5.200                        | 2.0              | 1410                             | 5                  | 5 Lb<br>73507-1<br>2-12-03 (1410)                                     |                            |
| 1.0                                    |                                                                                                        | 5.500                        | 2.0              | 1412                             | 7                  |                                                                       |                            |
| 2.0                                    |                                                                                                        | 5.800                        |                  | 1415                             | 7                  |                                                                       |                            |
|                                        |                                                                                                        | 5.700                        |                  | 1520                             | 7                  |                                                                       |                            |
|                                        |                                                                                                        | 5.700                        |                  | 1420                             | 7                  |                                                                       |                            |
| 3.0                                    | TD: 5.20' BGs<br>2-12-03<br>1415                                                                       |                              |                  |                                  |                    | Background<br>NAI 14680<br>PID: 0.0                                   |                            |
| 4.0                                    |                                                                                                        |                              |                  |                                  |                    | Backfilled<br>boring w/<br>1.0 bags<br>of benton-<br>ite chips.       |                            |
| 5.0                                    |                                                                                                        |                              |                  |                                  |                    | * samples<br>will be<br>counted using<br>gas proportion-<br>al meter. |                            |
| 6.0                                    |                                                                                                        |                              |                  |                                  |                    | (See attch-<br>ed sheet)                                              |                            |
| 7.0                                    |                                                                                                        |                              |                  |                                  |                    |                                                                       |                            |
| 8.0                                    |                                                                                                        |                              |                  |                                  |                    |                                                                       |                            |
| 9.0                                    |                                                                                                        |                              |                  |                                  |                    |                                                                       |                            |
| 10.0                                   |                                                                                                        |                              |                  |                                  |                    |                                                                       |                            |
|                                        |                                                                                                        |                              |                  |                                  |                    |                                                                       |                            |
|                                        |                                                                                                        |                              |                  |                                  |                    |                                                                       |                            |

RADIOLOGICAL SURVEY FORM

Sample ID SLD 73007 QC Date Sample was collected: 2-12-03 Date Sample was analyzed: 2-24-03  
POT  
 Instrument #1 Background 4680 cpm Instrument #2 Background 4351 cpm  
 Count rate of Empty Pan: Beta 84 cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 1410<br>0-6              | 5200                                                      | 520                               | 4669                                                  | 318                           | 126                                | 42       |
| 1412<br>6-12             | 5500                                                      | 820                               | 5053                                                  | 702                           | 190                                | 106      |
| 1415<br>12-18            | 5400                                                      | 720                               | 4541                                                  | 190                           | 151                                | 67       |
| 1420<br>18-24            | 5700                                                      | 1020                              | 4673                                                  | 322                           | 160                                | 76       |
| 24-30                    |                                                           |                                   |                                                       |                               |                                    |          |
| 30-36                    |                                                           |                                   |                                                       |                               |                                    |          |
| 36-42                    |                                                           |                                   |                                                       |                               |                                    |          |
| 42-48                    |                                                           |                                   |                                                       |                               |                                    |          |
| 48-54                    |                                                           |                                   |                                                       |                               |                                    |          |
| 54-60                    |                                                           |                                   |                                                       |                               |                                    |          |
| 60-66                    |                                                           |                                   |                                                       |                               |                                    |          |
| 66-72                    |                                                           |                                   |                                                       |                               |                                    |          |

SLD 73007, 1, 2.

| HTRW DRILLING LOG                                                                                                                         |  |                                                              |  | DISTRICT                               | HOLE NUMBER    |  |
|-------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------|--|----------------------------------------|----------------|--|
| 1. COMPANY NAME                                                                                                                           |  | 2. DRILLING SUBCONTRACTOR                                    |  | St. Louis                              | SLD 7300704(b) |  |
| Shaw E & I                                                                                                                                |  | MES, Inc.                                                    |  | SHEET 1 OF 2                           |                |  |
| 3. PROJECT                                                                                                                                |  | 4. LOCATION                                                  |  | PSC Metals North Tract V.P.            |                |  |
| FUSRAP/SLDS                                                                                                                               |  | 5. NAME OF DRILLER                                           |  | 6. MANUFACTURER'S DESIGNATION OF DRILL |                |  |
| Chris Anthony                                                                                                                             |  | Diedrich D-120 P.S.                                          |  | Diedrich D-120 P.S.                    |                |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT                                                                                     |  | 8. HOLE LOCATION                                             |  | 9. SURFACE ELEVATION                   |                |  |
| Diedrich D-120<br>using P.S. ASA and<br>3" x 2" split spoon,<br>Hard Travel<br>PID 2-12-03 NAI LUDI 75040<br>Cal. Date: 4-11-03 Bkg: 4680 |  | See location sketch                                          |  | N/A                                    |                |  |
| 12. OVERBURDEN THICKNESS                                                                                                                  |  | 15. DEPTH GROUNDWATER ENCOUNTERED                            |  | 11. DATE COMPLETED                     |                |  |
| N/A                                                                                                                                       |  | N/A                                                          |  | 2-12-03                                |                |  |
| 13. DEPTH DRILLED INTO ROCK                                                                                                               |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED |  | 3-12-03                                |                |  |
| N/A                                                                                                                                       |  | N/A                                                          |  |                                        |                |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                   |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)                 |  |                                        |                |  |
| 0.5 FT BGS                                                                                                                                |  | N/A                                                          |  |                                        |                |  |
| 18. GEOTECHNICAL SAMPLES                                                                                                                  |  | 19. TOTAL NUMBER OF CORE BOXES                               |  |                                        |                |  |
| DISTURBED                                                                                                                                 |  | UNDISTURBED                                                  |  |                                        |                |  |
| 0                                                                                                                                         |  | 0                                                            |  |                                        |                |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                         |  | OTHER (SPECIFY)                                              |  | 21. TOTAL CORE RECOVERY                |                |  |
| VOC                                                                                                                                       |  | RAD                                                          |  | 0 %                                    |                |  |
| 0                                                                                                                                         |  | OTHER (SPECIFY)                                              |  | 0 %                                    |                |  |
| 22. DISPOSITION OF HOLE                                                                                                                   |  | 23. SIGNATURE OF INSPECTOR                                   |  |                                        |                |  |
| BACKFILLED                                                                                                                                |  | N/A                                                          |  | Phillip Statter                        |                |  |
| Yes                                                                                                                                       |  | N/A                                                          |  |                                        |                |  |
| LOCATION SKETCH/COMMENTS Witnessed by: Phillip Statter SCALE: Not to Scale                                                                |  |                                                              |  |                                        |                |  |
| Terms used to describe %                                                                                                                  |  |                                                              |  |                                        |                |  |
| Trace - < 5 %                                                                                                                             |  |                                                              |  |                                        |                |  |
| Few - 5 - 10 %                                                                                                                            |  |                                                              |  |                                        |                |  |
| Little - 15 - 25 %                                                                                                                        |  |                                                              |  |                                        |                |  |
| Some - 20 - 35 %                                                                                                                          |  |                                                              |  |                                        |                |  |
| Mostly - 50 - 100 %                                                                                                                       |  |                                                              |  |                                        |                |  |
| ↑                                                                                                                                         |  |                                                              |  |                                        |                |  |
| N                                                                                                                                         |  |                                                              |  |                                        |                |  |
| R. R. Tracks                                                                                                                              |  |                                                              |  |                                        |                |  |
| HTZ 66271                                                                                                                                 |  |                                                              |  |                                        |                |  |
| SLD 7300704(b)                                                                                                                            |  |                                                              |  |                                        |                |  |
| (moved over 0.5 N of SLD 7300704)                                                                                                         |  |                                                              |  |                                        |                |  |
| SLD 7300704(b)                                                                                                                            |  |                                                              |  |                                        |                |  |
| SLD 73009                                                                                                                                 |  |                                                              |  |                                        |                |  |
| PROJECT FUSRAP/SLDS                                                                                                                       |  |                                                              |  |                                        |                |  |
| HOLE NO. SLD 7300704(b)                                                                                                                   |  |                                                              |  |                                        |                |  |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                 |                              |                                  |                            |                 |                                                                           | WELL NUMBER<br>SLB 73007 QCB |
|----------------------------------------|-----------------------------------------------------------------|------------------------------|----------------------------------|----------------------------|-----------------|---------------------------------------------------------------------------|------------------------------|
| PROJECT<br>FUSRAP / SLDS               |                                                                 | INSPECTOR<br>Phillip Staller |                                  |                            | SHEET<br>2 of 2 |                                                                           |                              |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS<br>(17)                                | RECOVERY<br>(17)             | ANALYTICAL<br>SAMPLE NO.<br>(17) | BLW CEMENT<br>(17)         | REMARKS<br>(17) |                                                                           |                              |
| SM                                     | Silty fine sand w/ some med. gravel, loose, poorly graded, dry. | 5300<br>0.0                  | RECOVERY<br>0.5/05               | 00-0.5/<br>2-12-03<br>1410 | N/A             | SLB 73007 QCB<br>2-12-03<br>(1410)                                        |                              |
| 1.0                                    | TD: 0.5' BGS<br>2-12-03<br>1410                                 |                              |                                  |                            |                 | Backgrounds<br>NATS 4680<br>PTD: 0.0                                      |                              |
| 2.0                                    |                                                                 |                              |                                  |                            |                 | Backfilled<br>boring w/<br>native soil.                                   |                              |
| 3.0                                    |                                                                 |                              |                                  |                            |                 | Sample will<br>be coated<br>w/ gas pro-<br>portional<br>meter.            |                              |
| 4.0                                    |                                                                 |                              |                                  |                            |                 | (See att-<br>ached sheet)                                                 |                              |
| 5.0                                    |                                                                 |                              |                                  |                            |                 | Sample<br>collected<br>to ensure<br>sufficient<br>volume in<br>QC sample. |                              |
| 6.0                                    |                                                                 |                              |                                  |                            |                 |                                                                           |                              |
| 7.0                                    |                                                                 |                              |                                  |                            |                 |                                                                           |                              |
| 8.0                                    |                                                                 |                              |                                  |                            |                 |                                                                           |                              |
| 9.0                                    |                                                                 |                              |                                  |                            |                 |                                                                           |                              |
| 10.0                                   |                                                                 |                              |                                  |                            |                 |                                                                           |                              |

PROJECT FUSRAP / SLDS

WELL NO. SLB 73007 QCB

RADIOLOGICAL SURVEY FORM

Sample ID SLD 73007B QC

Date Sample was collected: 2-12-03

Date Sample was analyzed: 2-20-03

Instrument #1 Background 6833 cpm

Instrument #2 Background 4861 cpm

Count rate of Empty Pan: Beta 81 cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 0-6                      | 5300                                                      | 1533                              | 5556                                                  | 695                           | 179                                | 98       |
| 6-12                     |                                                           |                                   |                                                       |                               |                                    |          |
| 12-18                    |                                                           |                                   |                                                       |                               |                                    |          |
| 18-24                    |                                                           |                                   |                                                       |                               |                                    |          |
| 24-30                    |                                                           |                                   |                                                       |                               |                                    |          |
| 30-36                    |                                                           |                                   |                                                       |                               |                                    |          |
| 36-42                    |                                                           |                                   | N                                                     | A                             |                                    |          |
| 42-48                    |                                                           |                                   |                                                       |                               |                                    |          |
| 48-54                    |                                                           |                                   |                                                       |                               |                                    |          |
| 54-60                    |                                                           |                                   |                                                       |                               |                                    |          |
| 60-66                    |                                                           |                                   |                                                       |                               |                                    |          |
| 66-72                    |                                                           |                                   |                                                       |                               |                                    |          |

SLD 73007, -1, -2

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                 |                                               | DISTRICT <b>St. Louis</b>                                                  |  | HOLE NUMBER <b>SLD 73009</b>      |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------|-----------------------------------------------|----------------------------------------------------------------------------|--|-----------------------------------|--|
| 1. COMPANY NAME<br><b>Shaw E &amp; I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                 | 2. DRILLING SUBCONTRACTOR<br><b>MES, Inc.</b> |                                                                            |  | SHEET <b>1</b> OF <b>2</b> SHEETS |  |
| 3. PROJECT<br><b>FUSRAP/SLDS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                 |                                               | 4. LOCATION<br><b>PSC Metals North Tract V.P.</b>                          |  |                                   |  |
| 5. NAME OF DRILLER<br><b>Chris Anthony</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                 |                                               | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><b>Diedrich D-120</b>            |  |                                   |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><b>Diedrich D-120<br/>using 4 1/4" HSA and<br/>3" x 2" split spoon.</b>                                                                                                                                                                                                                                                                                                                                                                                                         |  |                 |                                               | 8. HOLE LOCATION<br><b>See location sketch</b>                             |  |                                   |  |
| 9. SURFACE ELEVATION<br><b>N/A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                 |                                               | 10. DATE STARTED<br><b>2-12-03</b>                                         |  |                                   |  |
| 11. DATE COMPLETED<br><b>2-12-03</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                 |                                               | 12. OVERBURDEN THICKNESS<br><b>N/A</b>                                     |  |                                   |  |
| 13. DEPTH DRILLED INTO ROCK<br><b>N/A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                 |                                               | 15. DEPTH GROUNDWATER ENCOUNTERED<br><b>N/A</b>                            |  |                                   |  |
| 14. TOTAL DEPTH OF HOLE<br><b>2.0 FT BGS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                 |                                               | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><b>N/A</b> |  |                                   |  |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><b>N/A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                 |                                               | 18. GEOTECHNICAL SAMPLES                                                   |  |                                   |  |
| DISTURBED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | UNDISTURBED     |                                               | 19. TOTAL NUMBER OF CORE BOXES                                             |  | 20. SAMPLES FOR CHEMICAL ANALYSIS |  |
| VOC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | METALS          |                                               | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| RAD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | OTHER (SPECIFY) |                                               | OTHER (SPECIFY)                                                            |  | 21. TOTAL CORE RECOVERY           |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | BACKFILLED      |                                               | MONITORING WELL                                                            |  | 23. SIGNATURE OF INSPECTOR        |  |
| Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | N/A             |                                               | N/A                                                                        |  | <i>Philip Statter</i>             |  |
| <div style="display: flex; justify-content: space-between;"> <div> <p>LOCATION SKETCH/COMMENTS</p> <p>Witnessed by: <i>Philip Statter</i></p> </div> <div> <p>SCALE: Not to Scale</p> <p>Terms used to describe %</p> <p>Trace - &lt; 5 %</p> <p>Few - 5 - 10 %</p> <p>Little - 15 - 25 %</p> <p>Some - 20 - 35 %</p> <p>Mostly - 50 - 100 %</p> </div> </div> <div style="text-align: center; margin-top: 20px;"> <p>R. R. Tracks</p> <p>HTZ</p> <p>66271</p> <p>SLD 73009</p> <p>SLD 73011</p> <p>SLD 73009</p> <p>(10,000)</p> </div> |  |                 |                                               |                                                                            |  |                                   |  |
| PROJECT <b>FUSRAP/SLDS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                 |                                               |                                                                            |  | HOLE NO. <b>SLD 73009</b>         |  |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                           |                              |                  |                               |                     |                                                                                                                                                                                                        | HOLE NUMBER<br>SLD 73009 |  |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------|------------------|-------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--|
| PROJECT<br>FUSRAP / SLD5               |                                                                                                           | INSPECTOR<br>Phillip Statler |                  |                               | SHEET 2 OF 2 SHEETS |                                                                                                                                                                                                        |                          |  |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS<br>(ft)                                                                          | NEUTRON LOG<br>(ft)          | RECOVERY<br>(ft) | QUALITY<br>SAMPLE NO.<br>(ft) | SLOW COUNT<br>(ft)  | REMARKS                                                                                                                                                                                                |                          |  |
| 0.0                                    | Silty fine sand w/ trace med. gravel, loose poorly graded, dk. brn. to blk, dry, some cinders, some slag. | 4700                         | 2.0 / 2.0        | 01-05                         | 6                   | SLD 73009                                                                                                                                                                                              |                          |  |
| 1.0                                    |                                                                                                           | 5200                         |                  | 05-10                         | 9                   | SLD 73010                                                                                                                                                                                              |                          |  |
| 2.0                                    |                                                                                                           | 5300                         |                  | 10-15                         | 7                   | SLD 73011                                                                                                                                                                                              |                          |  |
| 3.0                                    |                                                                                                           | 4700                         |                  | 15-20                         | 7                   | SLD 73012                                                                                                                                                                                              |                          |  |
| 4.0                                    | TD: 2.0' BG5<br>2-12-03<br>1400                                                                           |                              |                  |                               |                     | Background:<br>NaI #4680<br>PID: 0.0<br>Backfilled<br>boring w/<br>1.0 bags<br>of bentonite<br>chips.<br>*Samples<br>will be<br>counted<br>using gas<br>proportional<br>meter.<br>(see attached sheet) |                          |  |
| 5.0                                    |                                                                                                           |                              |                  |                               |                     |                                                                                                                                                                                                        |                          |  |
| 6.0                                    |                                                                                                           |                              |                  |                               |                     |                                                                                                                                                                                                        |                          |  |
| 7.0                                    |                                                                                                           |                              |                  |                               |                     |                                                                                                                                                                                                        |                          |  |
| 8.0                                    |                                                                                                           |                              |                  |                               |                     |                                                                                                                                                                                                        |                          |  |
| 9.0                                    |                                                                                                           |                              |                  |                               |                     |                                                                                                                                                                                                        |                          |  |
| 10.0                                   |                                                                                                           |                              |                  |                               |                     |                                                                                                                                                                                                        |                          |  |
|                                        |                                                                                                           |                              |                  |                               |                     |                                                                                                                                                                                                        |                          |  |
|                                        |                                                                                                           |                              |                  |                               |                     |                                                                                                                                                                                                        |                          |  |
|                                        |                                                                                                           |                              |                  |                               |                     |                                                                                                                                                                                                        |                          |  |



RADIOLOGICAL SURVEY FORM

Sample ID SLD 73009

Date Sample was collected: 2-12-03

Date Sample was analyzed: 2-20-03

Instrument #1 Background 4680 cpm

Instrument #2 Background 4887 cpm

Count rate of Empty Pan: Beta 82 cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 1355<br>0-6              | 4700                                                      | 20                                | 5146                                                  | 259                           | 171                                | 89       |
| 1357<br>6-12             | 5200                                                      | 520                               | 5477                                                  | 590                           | 172                                | 90       |
| 1400<br>12-18            | 5300                                                      | 620                               | 5179                                                  | 290                           | 119                                | 37       |
| 1408<br>18-24            | 4700                                                      | 20                                | 5188                                                  | 301                           | 141                                | 59       |
| 24-30                    |                                                           |                                   |                                                       |                               |                                    |          |
| 30-36                    |                                                           |                                   |                                                       |                               |                                    |          |
| 36-42                    |                                                           |                                   |                                                       |                               |                                    |          |
| 42-48                    |                                                           |                                   | N                                                     | A                             |                                    |          |
| 48-54                    |                                                           |                                   |                                                       |                               |                                    |          |
| 54-60                    |                                                           |                                   |                                                       |                               |                                    |          |
| 60-66                    |                                                           |                                   |                                                       |                               |                                    |          |
| 66-72                    |                                                           |                                   |                                                       |                               |                                    |          |

SLD 73009

SLD 78010

SLD 73009  
(archive)

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                       |  |                                                    |  | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER <u>SLD 73011</u>                        |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------|--|----------------------------------------------------------------------------|--|-----------------------------------------------------|--|
| 1. COMPANY NAME<br><u>Shaw E &amp; I</u>                                                                                                                                                                                                                                                                                                |  | 2. DRILLING SUBCONTRACTOR<br><u>MES, Inc.</u>      |  | SHEET <u>1</u> OF <u>2</u>                                                 |  |                                                     |  |
| 3. PROJECT<br><u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                        |  |                                                    |  | 4. LOCATION<br><u>PSC Metals North Tract V.P.</u>                          |  |                                                     |  |
| 5. NAME OF DRILLER<br><u>Chris Anthony</u>                                                                                                                                                                                                                                                                                              |  |                                                    |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>Diedrich D-120</u>            |  |                                                     |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Hand auger 3" &amp; 2" split spoon.</u>                                                                                                                                                                                                                                     |  |                                                    |  | 8. HOLE LOCATION<br><u>See location sketch</u>                             |  |                                                     |  |
| 9. SURFACE ELEVATION<br><u>N/A</u>                                                                                                                                                                                                                                                                                                      |  |                                                    |  | 10. DATE STARTED<br><u>1-29-03</u>                                         |  |                                                     |  |
| 11. DATE COMPLETED<br><u>1-29-03</u>                                                                                                                                                                                                                                                                                                    |  |                                                    |  | 12. OVERBURDEN THICKNESS<br><u>N/A</u>                                     |  |                                                     |  |
| 13. DEPTH DRILLED INTO ROCK<br><u>N/A</u>                                                                                                                                                                                                                                                                                               |  |                                                    |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                                     |  |
| 14. TOTAL DEPTH OF HOLE<br><u>2.0 FT BGS</u>                                                                                                                                                                                                                                                                                            |  |                                                    |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                                     |  |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                                                                                                                                                                                                                                                                              |  |                                                    |  | 18. GEOTECHNICAL SAMPLES                                                   |  |                                                     |  |
| DISTURBED<br><input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                        |  | UNDISTURBED<br><input checked="" type="checkbox"/> |  | 19. TOTAL NUMBER OF CORE BOXES<br><u>0</u>                                 |  |                                                     |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                       |  | VOC<br><input checked="" type="checkbox"/>         |  | METALS<br><input checked="" type="checkbox"/>                              |  | OTHER (SPECIFY)<br><u>RAD</u>                       |  |
| 21. TOTAL CORE RECOVERY<br><u>0%</u>                                                                                                                                                                                                                                                                                                    |  | BACKFILLED<br><input checked="" type="checkbox"/>  |  | MONITORING WELL<br><input checked="" type="checkbox"/>                     |  | OTHER (SPECIFY)<br><u>N/A</u>                       |  |
| 22. DISPOSITION OF HOLE<br><input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                          |  | Yes                                                |  | N/A                                                                        |  | 23. SIGNATURE OF INSPECTOR<br><u>Philip Statler</u> |  |
| LOCATION SKETCH/COMMENTS Witnessed by: <u>Philip Statler</u> SCALE: <u>Not to Scale</u>                                                                                                                                                                                                                                                 |  |                                                    |  |                                                                            |  |                                                     |  |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> </div> <div style="width: 35%; border: 1px solid black; padding: 5px;"> <p>Terms used to describe %</p> <p>Trace - &lt; 5 %</p> <p>Few - 5 - 10 %</p> <p>Little - 15 - 25 %</p> <p>Some - 20 - 35 %</p> <p>Mostly - 50 - 100 %</p> </div> </div> |  |                                                    |  |                                                                            |  |                                                     |  |
| PROJECT <u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                              |  |                                                    |  |                                                                            |  | HOLE NO. <u>SLD 73011</u>                           |  |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                                    |                                     |                 |                                       |                     | HOLE NUMBER<br>SLD 73011                                                                                                                                                                              |                                 |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------|---------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| PROJECT<br>FUSRAP / SLDs               |                                                                                                                                    | INSPECTOR<br>Phillip Statler        |                 |                                       |                     | SHEET<br>2 of 2                                                                                                                                                                                       |                                 |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS<br>(ft)                                                                                                   | NEUTRON LOG<br>(% H <sub>2</sub> O) | RECOVERY<br>(%) | SAMPLE NO.<br>(ID)                    | SLOW COUNT<br>(cpm) | REMARKS<br>(ft)                                                                                                                                                                                       |                                 |
| 1.0                                    | silty fine sand w/ some<br>med gravel, loose, poorly<br>graded, dk. brn. to<br>blk, few cinders, few<br>slag, few limestone frags. | 8000<br>0.0                         | 2.0             | 3-4-11<br>0.0-0.5<br>1-2A-03<br>(555) | N/A                 | 0.0-0.5 A<br>0.0-0.5 B                                                                                                                                                                                | SLD<br>73011<br>1555            |
| 1.0                                    |                                                                                                                                    | 8800<br>0.0                         | 2.0             | 0.0-0.5<br>0.5-1.0<br>1600            | N/A                 | 0.5-1.0 A<br>0.5-1.0 B                                                                                                                                                                                | SLD<br>73011<br>archive<br>1600 |
| 1.0                                    |                                                                                                                                    | 8800<br>0.0                         | 2.0             | 10-1.5<br>1610                        | N/A                 |                                                                                                                                                                                                       | SLD<br>73012<br>1610            |
| 1.0                                    |                                                                                                                                    | 7500<br>0.0                         |                 | 1.5-2.0<br>1615                       | N/A                 |                                                                                                                                                                                                       |                                 |
| 2.0                                    |                                                                                                                                    |                                     |                 |                                       |                     |                                                                                                                                                                                                       |                                 |
| 3.0                                    |                                                                                                                                    |                                     |                 |                                       |                     |                                                                                                                                                                                                       |                                 |
| 4.0                                    |                                                                                                                                    |                                     |                 |                                       |                     |                                                                                                                                                                                                       |                                 |
| 5.0                                    |                                                                                                                                    |                                     |                 |                                       |                     |                                                                                                                                                                                                       |                                 |
| 6.0                                    |                                                                                                                                    |                                     |                 |                                       |                     |                                                                                                                                                                                                       |                                 |
| 7.0                                    |                                                                                                                                    |                                     |                 |                                       |                     |                                                                                                                                                                                                       |                                 |
| 8.0                                    |                                                                                                                                    |                                     |                 |                                       |                     |                                                                                                                                                                                                       |                                 |
| 9.0                                    |                                                                                                                                    |                                     |                 |                                       |                     |                                                                                                                                                                                                       |                                 |
| 10.0                                   |                                                                                                                                    |                                     |                 |                                       |                     |                                                                                                                                                                                                       |                                 |
| TD: 2.0' BGS<br>1-29-03<br>1615        |                                                                                                                                    |                                     |                 |                                       |                     | Back ground:<br>NAT: 8000<br>PID: 0.0<br>Backfilled<br>boring w/ 1/2<br>bag of<br>bentonite<br>chips.<br>* Samples<br>will be<br>counted w/<br>gas propor-<br>tional meter<br>(see attached<br>sheet) |                                 |

IT Corporation  
FUSRAP SLDS 775575

RADIOLOGICAL SURVEY FORM

Sample ID SLD 73011 POT

Date Sample was collected: 1-29-03

Date Sample was analyzed: 1-30-03

Instrument #1 Background 8000

Instrument #2 Background 4865 cpm

Count rate of Empty Pan: Beta 128 cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 0-6                      | 8000                                                      | 0                                 | 5261                                                  | 396                           | 180                                | 52       |
| 6-12                     | 8800                                                      | 800                               | 5331                                                  | 466                           | 197                                | 69       |
| 12-18                    | 8800                                                      | 800                               | 5252                                                  | 387                           | 209                                | 81       |
| 18-24                    | 7800                                                      | -200                              | 5004                                                  | 139                           | 177                                | 49       |
| 24-30                    |                                                           |                                   |                                                       |                               |                                    |          |
| 30-36                    |                                                           |                                   |                                                       |                               |                                    |          |
| 36-42                    |                                                           |                                   |                                                       | A                             |                                    |          |
| 42-48                    |                                                           |                                   | N                                                     |                               |                                    |          |
| 48-54                    |                                                           |                                   |                                                       |                               |                                    |          |
| 54-60                    |                                                           |                                   |                                                       |                               |                                    |          |
| 60-66                    |                                                           |                                   |                                                       |                               |                                    |          |
| 66-72                    |                                                           |                                   |                                                       |                               |                                    |          |

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                       |  |  |  | DISTRICT <u>St. Louis</u>                                                                                                    |  | HOLE NUMBER <u>SLD 73013</u> |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|------------------------------------------------------------------------------------------------------------------------------|--|------------------------------|--|
| 1. COMPANY NAME <u>Shaw E &amp; I</u>                                                                                                                                                                                                                                                                                                   |  |  |  | 2. DRILLING SUBCONTRACTOR <u>MES, Inc. PS.</u>                                                                               |  | SHEET <u>1</u> OF <u>2</u>   |  |
| 3. PROJECT <u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                           |  |  |  | 4. LOCATION <u>PSG Metals<sup>PS</sup> North Tract V.P.</u>                                                                  |  |                              |  |
| 5. NAME OF DRILLER <u>Chris Anthony PS</u>                                                                                                                                                                                                                                                                                              |  |  |  | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>Diedrich D-120</u>                                                                 |  |                              |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>Diedrich D-120</u><br><u>using PS HSA and</u><br><u>Hard auger 3" &amp; 2" split spoon.</u>                                                                                                                                                                                    |  |  |  | 8. HOLE LOCATION <u>See location sketch</u>                                                                                  |  |                              |  |
| 9. SURFACE ELEVATION <u>N/A</u>                                                                                                                                                                                                                                                                                                         |  |  |  | 10. DATE STARTED <u>2-4-03</u>                                                                                               |  |                              |  |
| 11. DATE COMPLETED <u>2-4-03</u>                                                                                                                                                                                                                                                                                                        |  |  |  | 12. OVERBURDEN THICKNESS <u>N/A</u>                                                                                          |  |                              |  |
| 13. DEPTH DRILLED INTO ROCK <u>N/A</u>                                                                                                                                                                                                                                                                                                  |  |  |  | 15. DEPTH GROUNDWATER ENCOUNTERED <u>N/A</u>                                                                                 |  |                              |  |
| 14. TOTAL DEPTH OF HOLE <u>2.0 FT BGS</u>                                                                                                                                                                                                                                                                                               |  |  |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u>                                                      |  |                              |  |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u>                                                                                                                                                                                                                                                                                 |  |  |  | 18. GEOTECHNICAL SAMPLES                                                                                                     |  |                              |  |
| <div style="display: flex; justify-content: space-around;"> <span>18. GEOTECHNICAL SAMPLES</span> <span>DISTURBED</span> <span>UNDISTURBED</span> </div>                                                                                                                                                                                |  |  |  | 19. TOTAL NUMBER OF CORE BOXES <u>0</u>                                                                                      |  |                              |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                       |  |  |  | 21. TOTAL CORE RECOVERY <u>0 %</u>                                                                                           |  |                              |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                 |  |  |  | 23. SIGNATURE OF INSPECTOR                                                                                                   |  |                              |  |
| <div style="display: flex; justify-content: space-around;"> <span>VOC</span> <span>METALS</span> <span>OTHER (SPECIFY)</span> </div>                                                                                                                                                                                                    |  |  |  | <div style="display: flex; justify-content: space-around;"> <span>OTHER (SPECIFY)</span> <span>OTHER (SPECIFY)</span> </div> |  |                              |  |
| <div style="display: flex; justify-content: space-around;"> <span>BACKFILLED</span> <span>MONITORING WELL</span> </div>                                                                                                                                                                                                                 |  |  |  | <div style="display: flex; justify-content: space-around;"> <span>OTHER (SPECIFY)</span> </div>                              |  |                              |  |
| <div style="display: flex; justify-content: space-around;"> <span>Yes</span> <span>N/A</span> </div>                                                                                                                                                                                                                                    |  |  |  | <div style="display: flex; justify-content: space-around;"> <span>N/A</span> </div>                                          |  |                              |  |
| LOCATION SKETCH/COMMENTS <u>Witnessed by: Phillip Statler</u>                                                                                                                                                                                                                                                                           |  |  |  |                                                                                                                              |  |                              |  |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> </div> <div style="width: 35%; border: 1px solid black; padding: 5px;"> <p>Terms used to describe %</p> <p>Trace - &lt; 5 %</p> <p>Few - 5 - 10 %</p> <p>Little - 15 - 25 %</p> <p>Some - 20 - 35 %</p> <p>Mostly - 50 - 100 %</p> </div> </div> |  |  |  |                                                                                                                              |  |                              |  |
| SCALE: <u>Not to Scale</u>                                                                                                                                                                                                                                                                                                              |  |  |  |                                                                                                                              |  |                              |  |
| PROJECT <u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                              |  |  |  |                                                                                                                              |  | HOLE NO. <u>SLD 73013</u>    |  |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                                        |                                    |                 |                            |                     |                             | HOLE NUMBER<br>SLD 73013 |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------------|----------------------------|---------------------|-----------------------------|--------------------------|
| PROJECT<br>FUSRAP / SLDs               |                                                                                                                                        | INSPECTOR<br>Philip Statler        |                 | SHEET 2 OF 2 SHEETS        |                     |                             |                          |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS<br>(ft)                                                                                                       | NEUTRON LOG<br>COUNT RATE<br>(cps) | RECOVERY<br>(%) | ANALYTICAL<br>SAMPLE NO.   | SLOW COUNT<br>(cpm) | REMARKS                     |                          |
| 0.0                                    | Silty fine sand w/ few med. gravel, loose, poorly graded, dk. brn. to blk. moist, few clinders, few slag, few clay, trace brick frags. | 8500<br>0.0                        | 2.0             | 0.0-0.5'<br>2-4-03<br>1355 | 1/A                 | SLD 73013<br>2-4-03<br>1355 |                          |
| 1.0                                    |                                                                                                                                        | 7900<br>0.0                        | 2.0             | 0.5-1.0'<br>1400           | N/A                 |                             |                          |
| 2.0                                    | Silty clay, soft, med. plast, dk. to lt. brn, moist, trace wood frags.                                                                 | 8900<br>0.0                        | 2.0             | 1.0-1.5'<br>1405           | N/A                 | SLD 73014<br>1405           |                          |
| 2.0                                    |                                                                                                                                        | 7900<br>0.0                        |                 | 1.5-2.0'<br>1410           | N/A                 |                             |                          |
| 3.0                                    | TD: 2.0' BGS<br>2-4-03<br>1405                                                                                                         |                                    |                 |                            |                     | Backgrounds                 |                          |
| 4.0                                    |                                                                                                                                        |                                    |                 |                            |                     | Nat: 7900                   |                          |
| 5.0                                    |                                                                                                                                        |                                    |                 |                            |                     | PIB: 0.0                    |                          |
| 6.0                                    |                                                                                                                                        |                                    |                 |                            |                     | Backfilled                  |                          |
| 7.0                                    |                                                                                                                                        |                                    |                 |                            |                     | boring w/                   |                          |
| 8.0                                    |                                                                                                                                        |                                    |                 |                            |                     | 20 bags of                  |                          |
| 9.0                                    |                                                                                                                                        |                                    |                 |                            |                     | limestone                   |                          |
| 10.0                                   |                                                                                                                                        |                                    |                 |                            |                     | chips.                      |                          |
|                                        |                                                                                                                                        |                                    |                 |                            |                     | *Samples                    |                          |
|                                        |                                                                                                                                        |                                    |                 |                            |                     | will be                     |                          |
|                                        |                                                                                                                                        |                                    |                 |                            |                     | collected using             |                          |
|                                        |                                                                                                                                        |                                    |                 |                            |                     | gas proportion-             |                          |
|                                        |                                                                                                                                        |                                    |                 |                            |                     | al meter                    |                          |
|                                        |                                                                                                                                        |                                    |                 |                            |                     | (See attached               |                          |
|                                        |                                                                                                                                        |                                    |                 |                            |                     | sheet).                     |                          |

RADIOLOGICAL SURVEY FORM

Sample ID SLD 73013 POI

Date Sample was collected: 2-4-03

Date Sample was analyzed: 2-5-03

Instrument #1 Background 7900 cpm

Instrument #2 Background 4814 cpm

Countrate of Empty Pan: Beta 82 cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Countrate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|-----------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                        | Net Beta |
| 0-6                      | 8500                                                      | 600                               | 5387                                                  | 573                           | 141                               | 59       |
| 6-12                     | 7900                                                      | 0                                 | 5336                                                  | 522                           | 142                               | 60       |
| 12-18                    | 8000                                                      | 100                               | 5260                                                  | 446                           | 124                               | 42       |
| 18-24                    | 7900                                                      | 0                                 | 5342                                                  | 528                           | 127                               | 45       |
| 24-30                    |                                                           |                                   |                                                       |                               |                                   |          |
| 30-36                    |                                                           |                                   |                                                       |                               |                                   |          |
| 36-42                    |                                                           |                                   |                                                       |                               |                                   |          |
| 42-48                    |                                                           |                                   |                                                       |                               |                                   |          |
| 48-54                    |                                                           |                                   |                                                       |                               |                                   |          |
| 54-60                    |                                                           |                                   |                                                       |                               |                                   |          |
| 60-66                    |                                                           |                                   |                                                       |                               |                                   |          |
| 66-72                    |                                                           |                                   |                                                       |                               |                                   |          |

SLD 73013

SLD 73014

N A

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                             |  |                                                    |  | DISTRICT <u>St. Louis</u>                                                  |                            | HOLE NUMBER <u>SLD 73015</u>      |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------|--|----------------------------------------------------------------------------|----------------------------|-----------------------------------|--|
| 1. COMPANY NAME<br><u>Shaw E &amp; I</u>                                                                                                                                                                                                                                                                                      |  | 2. DRILLING SUBCONTRACTOR<br><u>MES, Inc. P.S.</u> |  |                                                                            | SHEET <u>1</u> OF <u>2</u> |                                   |  |
| 3. PROJECT<br><u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                              |  |                                                    |  | 4. LOCATION<br><u>PSC Metals North Tract V.P.</u>                          |                            |                                   |  |
| 5. NAME OF DRILLER<br><u>Chris Anthony P.S.</u>                                                                                                                                                                                                                                                                               |  |                                                    |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>Diedrich D-120</u>            |                            |                                   |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Diedrich D-120 P.S.</u><br><u>using HSA and</u><br><u>3" x 2" split spoon.</u>                                                                                                                                                                                    |  |                                                    |  | 8. HOLE LOCATION<br><u>See location sketch</u>                             |                            |                                   |  |
| 9. SURFACE ELEVATION<br><u>N/A</u>                                                                                                                                                                                                                                                                                            |  |                                                    |  | 10. DATE STARTED<br><u>2-3-03</u>                                          |                            |                                   |  |
| 11. DATE COMPLETED<br><u>2-3-03</u>                                                                                                                                                                                                                                                                                           |  |                                                    |  | 12. OVERBURDEN THICKNESS<br><u>N/A</u>                                     |                            |                                   |  |
| 13. DEPTH DRILLED INTO ROCK<br><u>N/A</u>                                                                                                                                                                                                                                                                                     |  |                                                    |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |                            |                                   |  |
| 14. TOTAL DEPTH OF HOLE<br><u>2.0 FT BGS</u>                                                                                                                                                                                                                                                                                  |  |                                                    |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |                            |                                   |  |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                                                                                                                                                                                                                                                                    |  |                                                    |  | 18. GEOTECHNICAL SAMPLES                                                   |                            |                                   |  |
| DISTURBED                                                                                                                                                                                                                                                                                                                     |  | UNDISTURBED                                        |  | 19. TOTAL NUMBER OF CORE BOXES                                             |                            | 20. SAMPLES FOR CHEMICAL ANALYSIS |  |
| VOC                                                                                                                                                                                                                                                                                                                           |  | METALS                                             |  | OTHER (SPECIFY)                                                            |                            | OTHER (SPECIFY)                   |  |
| BACKFILLED                                                                                                                                                                                                                                                                                                                    |  | MONITORING WELL                                    |  | OTHER (SPECIFY)                                                            |                            | 21. TOTAL CORE RECOVERY           |  |
| Yes                                                                                                                                                                                                                                                                                                                           |  | N/A                                                |  | N/A                                                                        |                            | N/A                               |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                       |  |                                                    |  | 23. SIGNATURE OF INSPECTOR                                                 |                            |                                   |  |
| Yes                                                                                                                                                                                                                                                                                                                           |  |                                                    |  | <u>Philip M. Statler</u>                                                   |                            |                                   |  |
| LOCATION SKETCH/COMMENTS <u>Witnessed by: Philip Statler</u> SCALE: <u>Not to Scale</u>                                                                                                                                                                                                                                       |  |                                                    |  |                                                                            |                            |                                   |  |
| <div style="float: right; border: 1px solid black; padding: 5px; width: 200px;"> Terms used to describe %<br/> Trace - &lt; 5 %<br/> Few - 5 - 10 %<br/> Little - 15 - 25 %<br/> Some - 20 - 35 %<br/> Mostly - 50 - 100 % </div> <div style="clear: both;"></div> <div style="text-align: center; margin-top: 50px;"> </div> |  |                                                    |  |                                                                            |                            |                                   |  |
| PROJECT <u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                    |  |                                                    |  |                                                                            |                            | HOLE NO. <u>SLD 73015</u>         |  |



| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                           |                              |                 |                          |                     |                                                                                                                                                                                | HOLE NUMBER<br>SLD 73015 |  |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------|-----------------|--------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--|
| PROJECT<br>FUSRAP / SLD5               |                                                                                                           | INSPECTOR<br>Phillip Statler |                 |                          | SHEET 2 OF 2        |                                                                                                                                                                                |                          |  |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS<br>(ft)                                                                          | NO. OF SAMPLES<br>COLLECTED  | RECOVERY<br>(%) | ANALYTICAL<br>SAMPLE NO. | SLOW COUNT<br>(cpm) | REMARKS                                                                                                                                                                        |                          |  |
| SM 1.0                                 | Silty fine sand w/ some med. gravel, loose, poorly graded. A/C brh. to blk, moist, few cinders, few slag. | 8100                         | 0.0             | 0.0-0.5                  | N/A                 | SLD 73015<br>2-3-03<br>1335                                                                                                                                                    |                          |  |
|                                        |                                                                                                           | 7200                         | 0.0             | 0.5-1.0                  | N/A                 |                                                                                                                                                                                |                          |  |
|                                        |                                                                                                           | 8300                         | 0.0             | 1.0-1.5                  | N/A                 |                                                                                                                                                                                |                          |  |
|                                        |                                                                                                           | 8500                         | 0.0             | 1.5-2.0                  | N/A                 |                                                                                                                                                                                |                          |  |
| 2.0                                    | trace clay                                                                                                |                              |                 |                          |                     | SLD 73016<br>2-3-03<br>1440                                                                                                                                                    |                          |  |
| 3.0                                    | TD: 2.0' BGS<br>2-3-03<br>1440                                                                            |                              |                 |                          |                     | Background;<br>Nat: 7970<br>PTD: 0.0<br><br>Boring back-filled w/ 20 bags of bentonite chips.<br><br>* Sampler will be counted w/ gas proportional meter. (See attached sheet) |                          |  |
|                                        |                                                                                                           |                              |                 |                          |                     |                                                                                                                                                                                |                          |  |
|                                        |                                                                                                           |                              |                 |                          |                     |                                                                                                                                                                                |                          |  |
|                                        |                                                                                                           |                              |                 |                          |                     |                                                                                                                                                                                |                          |  |
|                                        |                                                                                                           |                              |                 |                          |                     |                                                                                                                                                                                |                          |  |
|                                        |                                                                                                           |                              |                 |                          |                     |                                                                                                                                                                                |                          |  |
|                                        |                                                                                                           |                              |                 |                          |                     |                                                                                                                                                                                |                          |  |
|                                        |                                                                                                           |                              |                 |                          |                     |                                                                                                                                                                                |                          |  |
|                                        |                                                                                                           |                              |                 |                          |                     |                                                                                                                                                                                |                          |  |
|                                        |                                                                                                           |                              |                 |                          |                     |                                                                                                                                                                                |                          |  |
| 4.0                                    |                                                                                                           |                              |                 |                          |                     |                                                                                                                                                                                |                          |  |
| 5.0                                    |                                                                                                           |                              |                 |                          |                     |                                                                                                                                                                                |                          |  |
| 6.0                                    |                                                                                                           |                              |                 |                          |                     |                                                                                                                                                                                |                          |  |
| 7.0                                    |                                                                                                           |                              |                 |                          |                     |                                                                                                                                                                                |                          |  |
| 8.0                                    |                                                                                                           |                              |                 |                          |                     |                                                                                                                                                                                |                          |  |
| 9.0                                    |                                                                                                           |                              |                 |                          |                     |                                                                                                                                                                                |                          |  |
| 10.0                                   |                                                                                                           |                              |                 |                          |                     |                                                                                                                                                                                |                          |  |

RADIOLOGICAL SURVEY FORM

Sample ID SLD 73015

Date Sample was collected: 2-3-03

Date Sample was analyzed: 2-5-03

Instrument #1 Background 7970 cpm

Instrument #2 Background 5552 cpm

Count rate of Empty Pan: Beta 81 cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 0-6                      | 8100                                                      | 130                               | 5782                                                  | 230                           | 143                                | 62       |
| 6-12                     | 7200                                                      | 770                               | 5728                                                  | 176                           | 135                                | 54       |
| 12-18                    | 8300                                                      | 330                               | 5830                                                  | 278                           | 162                                | 81       |
| 18-24                    | 8500                                                      | 530                               | 5883                                                  | 331                           | 149                                | 68       |
| 24-30                    |                                                           |                                   |                                                       |                               |                                    |          |
| 30-36                    |                                                           |                                   |                                                       |                               |                                    |          |
| 36-42                    |                                                           |                                   |                                                       |                               |                                    |          |
| 42-48                    |                                                           |                                   |                                                       |                               |                                    |          |
| 48-54                    |                                                           |                                   |                                                       |                               |                                    |          |
| 54-60                    |                                                           |                                   |                                                       |                               |                                    |          |
| 60-66                    |                                                           |                                   |                                                       |                               |                                    |          |
| 66-72                    |                                                           |                                   |                                                       |                               |                                    |          |

SLD 73015

SLD 73016

N A

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                          |                              |                 |                                 |                   | HOLE NUMBER<br>SLD 73017 |  |
|----------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------|-----------------|---------------------------------|-------------------|--------------------------|--|
| PROJECT<br>FUSRAP / SLDs               |                                                                                                          | INSPECTOR<br>Phillip Statler |                 | SHEET 2 OF 2 SHEETS             |                   |                          |  |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS<br>(1)                                                                          | NEUTRON<br>LOG<br>(2)        | RECOVERY<br>(3) | ANALYTICAL<br>SAMPLE NO.<br>(4) | SLOW COUNT<br>(5) | REMARKS<br>(6)           |  |
| 0.0                                    | Silty fine sand w/ few med. gravel, loose, poorly graded, dk. brn. to blk, moist, few cinders, few slag. | 8700                         | 0.0             | 0.0-0.5                         | N/A               | SLD 73017                |  |
| 1.0                                    | few clay                                                                                                 | 8900                         | 0.0             | 2-3-03                          | N/A               | 1100                     |  |
| 2.0                                    | Silty clay w/ few med. gravel, soft, med. plastic, dk. brn, dry, few cinders, slag                       | 8400                         | 0.0             | 0.5-1.0                         | N/A               | 1115                     |  |
| 3.0                                    |                                                                                                          | 8500                         | 0.0             | 1.0-1.5                         | N/A               | 1125                     |  |
| 4.0                                    |                                                                                                          |                              |                 | 1.5-2.0                         | N/A               | 1130                     |  |
| 5.0                                    |                                                                                                          |                              |                 |                                 |                   |                          |  |
| 6.0                                    |                                                                                                          |                              |                 |                                 |                   |                          |  |
| 7.0                                    |                                                                                                          |                              |                 |                                 |                   |                          |  |
| 8.0                                    |                                                                                                          |                              |                 |                                 |                   |                          |  |
| 9.0                                    |                                                                                                          |                              |                 |                                 |                   |                          |  |
| 10.0                                   |                                                                                                          |                              |                 |                                 |                   |                          |  |

TD: 20' BES  
2-3-03  
1130

Background:  
Nat: 7970  
PIp: 0.0

Backfilled  
boring w/  
2.0 bags of  
bentonite  
chips.

\* Samples  
will be  
counted using  
gas propor-  
tional meter.  
(see attached  
sheet).

RADIOLOGICAL SURVEY FORM

Sample ID SLD 73017 PDI Date Sample was collected: 2-3-03 Date Sample was analyzed: 2-5-03  
Instrument #1 Background 7970 cpm Instrument #2 Background 5552 cpm  
Count rate of Empty Pan: Beta 86 cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 0-6                      | 8700                                                      | 730                               | 6151                                                  | 599                           | 179                                | 93       |
| 6-12                     | 8900                                                      | 930                               | 5955                                                  | 403                           | 180                                | 94       |
| 12-18                    | 8400                                                      | 430                               | 5664                                                  | 112                           | 156                                | 70       |
| 18-24                    | 8200                                                      | 230                               | 5978                                                  | 426                           | 122                                | 36       |
| 24-30                    |                                                           |                                   |                                                       |                               |                                    |          |
| 30-36                    |                                                           |                                   |                                                       |                               |                                    |          |
| 36-42                    |                                                           |                                   |                                                       |                               |                                    |          |
| 42-48                    |                                                           |                                   | N                                                     | A                             |                                    |          |
| 48-54                    |                                                           |                                   |                                                       |                               |                                    |          |
| 54-60                    |                                                           |                                   |                                                       |                               |                                    |          |
| 60-66                    |                                                           |                                   |                                                       |                               |                                    |          |
| 66-72                    |                                                           |                                   |                                                       |                               |                                    |          |

SLD 73017

SLD 73018

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                    |  | DISTRICT <u>St. Louis</u>                                                  |                            | HOLE NUMBER <u>SLD 75708</u>     |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------|--|----------------------------------------------------------------------------|----------------------------|----------------------------------|--|
| 1. COMPANY NAME<br><u>Shaw E &amp; I</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | 2. DRILLING SUBCONTRACTOR<br><u>MES, Inc. P.S.</u> |  |                                                                            | SHEET <u>1</u> OF <u>2</u> |                                  |  |
| 3. PROJECT<br><u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                    |  | 4. LOCATION<br><u>PSC Metals North Tract V.P.</u>                          |                            |                                  |  |
| 5. NAME OF DRILLER<br><u>Chris Anthony P.S.</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                    |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>Diedrich D-120 P.S.</u>       |                            |                                  |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Diedrich P-120</u><br><u>using HSA and</u><br><u>5" x 2" split spear.</u><br><u>Hand auger</u>                                                                                                                                                                                                                                                                                                                                          |  |                                                    |  | 8. HOLE LOCATION<br><u>See location sketch</u>                             |                            |                                  |  |
| 9. SURFACE ELEVATION<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                    |  | 10. DATE STARTED<br><u>2-27-03</u>                                         |                            |                                  |  |
| 11. DATE COMPLETED<br><u>2-27-03</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                    |  | 12. OVERBURDEN THICKNESS<br><u>N/A</u>                                     |                            |                                  |  |
| 13. DEPTH DRILLED INTO ROCK<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                    |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |                            |                                  |  |
| 14. TOTAL DEPTH OF HOLE<br><u>4.0 FT BGS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                    |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |                            |                                  |  |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                                    |  | 18. GEOFISICAL SAMPLES                                                     |                            |                                  |  |
| 18. GEOFISICAL SAMPLES<br><input checked="" type="checkbox"/> DISTURBED <input checked="" type="checkbox"/> UNDISTURBED                                                                                                                                                                                                                                                                                                                                                                             |  |                                                    |  | 19. TOTAL NUMBER OF CONE BOXES<br><u>0</u>                                 |                            |                                  |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                    |  | 21. TOTAL CORE RECOVERY %                                                  |                            |                                  |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS<br><input checked="" type="checkbox"/> VOC <input checked="" type="checkbox"/> METALS <input checked="" type="checkbox"/> OTHER (SPECIFY) <u>RAD</u>                                                                                                                                                                                                                                                                                                              |  |                                                    |  | 21. TOTAL CORE RECOVERY %<br><u>0</u>                                      |                            |                                  |  |
| 22. DISPOSITION OF HOLE<br><input checked="" type="checkbox"/> BACKFILLED <input checked="" type="checkbox"/> MONITORING WELL <input checked="" type="checkbox"/> OTHER (SPECIFY) <u>N/A</u>                                                                                                                                                                                                                                                                                                        |  |                                                    |  | 23. SIGNATURE OF INSPECTOR<br><u>Phillip Gattler</u>                       |                            |                                  |  |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p>LOCATION SKETCH/COMMENTS</p> <p>Witnessed by: <u>Phillip Gattler</u></p> <p>SCALE: <u>Not to Scale</u></p> <p>Terms used to describe %</p> <p>Trace - <u>&lt; 5%</u></p> <p>Few - <u>5-10%</u></p> <p>Little - <u>15-25%</u></p> <p>Some - <u>20-35%</u></p> <p>Mostly - <u>50-100%</u></p> </div> <div style="width: 35%;"> <p>↑</p> <p>N</p> <p>Southern Bldg. (North Tract)</p> <p>↓</p> </div> </div> |  |                                                    |  |                                                                            |                            |                                  |  |
| <p>SLD</p> <p>72161</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | <p>TRUCK</p>                                       |  | <p>SLD 75708 (12 K)</p>                                                    |                            | <p>Rail Car</p>                  |  |
| <p>TRAILER</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | <p>PROJECT <u>FUSRAP/SLDS</u></p>                  |  |                                                                            |                            |                                  |  |
| <p>HOLE NO. <u>SLD 75708</u></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                    |  |                                                                            |                            | <p>HOLE NO. <u>SLD 75708</u></p> |  |

| HTRW DRILLING LOG (CONTINUATION SHEET) |                 |                                                                                                                                |                        |                          |                            |                            | WELL NUMBER<br>SLD 75708                                                                                                                                                                       |
|----------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------|----------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROJECT<br>FUSRAP / SLDs               |                 | INVESTIGATOR<br>Phillip Statler                                                                                                |                        |                          |                            |                            | SHEET 2 OF 2                                                                                                                                                                                   |
| DEPTH<br>FEET                          | DEPTH<br>METERS | DESCRIPTION OF MATERIALS                                                                                                       | WATER<br>DEPTH<br>FEET | WATER<br>DEPTH<br>METERS | WATER<br>TEMPERATURE<br>°F | WATER<br>TEMPERATURE<br>°C | REMARKS                                                                                                                                                                                        |
| SM                                     | 1.0             | Silty fine sand w/ some med. gravel and trace cobbles, loose, poorly graded, dk. brn, dry, few clasts, few slag, trace bricks. | 7300<br>0.0            | 2.0<br>2.0               | 1430                       | N/A                        | Hand-augured boring in 6" intervals.<br>SLD 75708 1430<br>SLD 75709 1430<br>SLD 75710 1500                                                                                                     |
|                                        | 2.0             | 1 large rock                                                                                                                   | 7400<br>0.0            | 2.0<br>2.0               | 1440                       | N/A                        |                                                                                                                                                                                                |
|                                        | 3.0             | few clay, in sist                                                                                                              | 7500<br>0.0            | 2.0<br>2.0               | 1450                       | N/A                        |                                                                                                                                                                                                |
|                                        | 4.0             |                                                                                                                                | 7600<br>0.0            | 2.0<br>2.0               | 1500                       | N/A                        |                                                                                                                                                                                                |
| CL                                     | 3.0             | Silty clay, med. stiff, med. R. plast., dk. brn, moist, few med. gravel.                                                       | 7600<br>0.0            | 2.0<br>2.0               | 1510                       | N/A                        |                                                                                                                                                                                                |
|                                        | 4.0             | clay turning gray, gravel absent.                                                                                              | 7700<br>0.0            | 2.0<br>2.0               | 1515                       | N/A                        |                                                                                                                                                                                                |
|                                        | 5.0             |                                                                                                                                | 7800<br>0.0            | 2.0<br>2.0               | 1530                       | N/A                        |                                                                                                                                                                                                |
|                                        | 5.0             | TD: 4.0' BGS<br>2-27-03<br>1525                                                                                                |                        |                          |                            |                            | Background:<br>NFI: 7,285<br>PID: 0.0<br>(2.0-2.5' BGS: 2.8)<br>Backfilled boring w/ 2.0 bags of bentonite chips.<br>* Sampler will be counted w/ gas proportional meter (See attached sheet). |
|                                        | 6.0             |                                                                                                                                |                        |                          |                            |                            |                                                                                                                                                                                                |
|                                        | 7.0             |                                                                                                                                |                        |                          |                            |                            |                                                                                                                                                                                                |
|                                        | 8.0             |                                                                                                                                |                        |                          |                            |                            |                                                                                                                                                                                                |
|                                        | 9.0             |                                                                                                                                |                        |                          |                            |                            |                                                                                                                                                                                                |
|                                        | 10.0            |                                                                                                                                |                        |                          |                            |                            |                                                                                                                                                                                                |

**IT Corporation**  
**FUSRAP SLDS 775575**

# RADIOLOGICAL SURVEY FORM

Sample ID SLD 75708

Date Sample was collected: 2-27-03

Date Sample was analyzed: 3-3-03

Instrument #1 Background 728.5 cpm

Instrument #2 Background 4200 cm

Count rate of Empty Pan: Beta 84 cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 0-6                      | 7300                                                      | 15                                | 5758                                                  | 1558                          | 252                                | 168      |
| 6-12                     | 8000                                                      | 715                               | 5791                                                  | 1591                          | 322                                | 238      |
| 12-18                    | 7600                                                      | 315                               | 4797                                                  | 597                           | 232                                | 148      |
| 18-24                    | 7500                                                      | 215                               | 4858                                                  | 658                           | 192                                | 108      |
| 24-30                    | 7800                                                      | 515                               | 4768                                                  | 568                           | 163                                | 79       |
| 30-36                    | 7600                                                      | 315                               | 4592                                                  | 392                           | 165                                | 81       |
| 36-42                    | 7600                                                      | 315                               | 4570                                                  | 370                           | 154                                | 70       |
| 42-48                    | 6900                                                      | -385                              | 4606                                                  | 406                           | 129                                | 45       |
| 48-54                    |                                                           |                                   |                                                       |                               |                                    |          |
| 54-60                    |                                                           |                                   | N                                                     | A                             |                                    |          |
| 60-66                    |                                                           |                                   |                                                       |                               |                                    |          |
| 66-72                    |                                                           |                                   |                                                       |                               |                                    |          |

EM 1110-1-4000  
1 Nov 98

PSC METALS (model track 1)

GRUSE

5/18/05

5/18/05  
10:20

| HTRW DRILLING LOG (CONTINUATION SHEET) |       |                                                                            |                              |                     |                                     |                  |
|----------------------------------------|-------|----------------------------------------------------------------------------|------------------------------|---------------------|-------------------------------------|------------------|
| PROJECT FUSAD SLOS                     |       |                                                                            | INSPECTOR MIKE MCCARRIN      |                     | HOLE NUMBER SLD 87284               |                  |
| SHEET 2 of 2                           |       |                                                                            | SHEETS                       |                     | SHEETS                              |                  |
| DEPT                                   | DEPTH | DESCRIPTION OF MATERIALS                                                   | TIME                         | REMARKS             | ANALYTICAL SAMPLE NO.               | ALLOY CORRECTION |
| CL<br>(Fill)                           | 1.0   | Black & brown silty clay (fill) w/ clods, some brick frags damp LOOSE      | 1:50<br>1:50<br>1:50<br>1:50 | Recovery 2.0<br>2.0 | SLD 87291<br>Arch. 108<br>SLD 87290 | 5<br>4<br>5      |
|                                        | 2.0   | Same                                                                       | 1:50<br>1:50                 | 2.0<br>2.0          | SLD 87290<br>SLD 87290              | 3<br>2           |
|                                        | 3.0   | Dark Brown silty clay (no clods) (fill) damp - moist                       | 1:50<br>1:50                 | 2.0<br>2.0          | Arch. 108                           | 3                |
|                                        | 4.0   | brown-gray (?) NATURAL silty clay moist soft                               | 1:50<br>1:50                 | 2.0<br>2.0          | Arch. 108                           | 4                |
|                                        | 5.0   | DK brown - gray clayey silt moist MED STIFF (no evd of fill) (note inside) | 1:50<br>1:50<br>1:50         | 2.0<br>2.0          | Arch. 108                           | 2<br>3<br>4      |
|                                        | 6.0   | Same                                                                       | 1:50<br>1:50                 | 2.0<br>2.0          | Arch. 108                           | 7<br>2           |
|                                        | 7.0   | Yellow-tan (w/ Mott) silty clay med stiff moist some sand & gravel         | 1:50<br>1:50<br>1:50         | 2.0<br>2.0          | Arch. 108                           | 4<br>6<br>7      |
|                                        | 8.0   | EOB 8.0 5/16/05 3:30                                                       |                              |                     |                                     |                  |
|                                        | 9.0   | Backfill to L/ Bowline chips                                               |                              |                     |                                     |                  |
|                                        | 10.0  | vedlok 6/7/05                                                              |                              |                     |                                     |                  |

INSIDE  
Soils

2:50  
2:50  
2:50

2:30  
2:50

2:50

3:09

3:19

Black



| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |            |  | DISTRICT St. Louis                                              |  | HOLE NUMBER<br>SLD 87 284      |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|-----------------------------------------------------------------|--|--------------------------------|--|
| 1. COMPANY NAME SHAN EXL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |            |  | 2. DRILLING SUBCONTRACTOR NA SHAN                               |  | SHEET 1 of 2                   |  |
| 3. PROJECT FUSRAP / SLDs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |            |  | 4. LOCATION PSC Metals (NT 1)                                   |  |                                |  |
| 5. NAME OF DRILLER Dan Gotto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL CME 75                   |  |                                |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>4.5 HSA<br>AWT ROD<br>3.5 SPLN SPOONS, WIRES, OTHERS<br>NOTED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |  | 8. HOLE LOCATION NA                                             |  |                                |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |            |  | 9. SURFACE ELEVATION 423.8                                      |  |                                |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |            |  | 10. DATE STARTED 5/18/05                                        |  | 11. DATE COMPLETED 5/18/05     |  |
| 12. OVERBURDEN THICKNESS NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |  | 15. DEPTH GROUNDWATER ENCOUNTERED NA                            |  |                                |  |
| 13. DEPTH DRILLED INTO ROCK NA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED NA |  |                                |  |
| 14. TOTAL DEPTH OF HOLE 8.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA                 |  |                                |  |
| 18. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | DISTURBED  |  | UNDISTURBED                                                     |  | 19. TOTAL NUMBER OF CORE BOXES |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | VOC        |  | METALS                                                          |  | OTHER (SPECIFY)                |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |            |  |                                                                 |  | 21. TOTAL CORE RECOVERY %      |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | SACRIFICED |  | MONITORING WELL                                                 |  | OTHER (SPECIFY)                |  |
| BACKFILLED GS BENTONITE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |            |  |                                                                 |  | 23. SIGNATURE OF INSPECTOR     |  |
| <div style="display: flex; justify-content: space-between;"> <div>LOCATION SKETCH/COMMENTS</div> <div>SCALE:</div> </div> <div style="height: 300px; border: 1px dashed black; position: relative;"> <!-- Hand-drawn sketch content --> <div style="position: absolute; top: 10%; left: 10%;"> <p>115'</p> <p>SLD 87 284</p> </div> <div style="position: absolute; top: 40%; left: 30%;"> <p>PSC Metals<br/>rough sketch</p> </div> <div style="position: absolute; top: 60%; left: 20%;"> <p>Bldg</p> </div> <div style="position: absolute; top: 70%; left: 30%;"> <p>RR Spur</p> </div> <div style="position: absolute; top: 75%; left: 65%;"> <p>N</p> </div> </div> |  |            |  |                                                                 |  |                                |  |
| DISTRICT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |            |  |                                                                 |  | HOLE NO.<br>SLD 87 284         |  |

# HTRW DRILLING LOG (CONTINUED SHEET)

PROJECT FUSRAP / SLOS

DRILLER M. MCCARRIN

SLD

DATE 8-23-63

3.3

| DEPTH | TIME | DESCRIPTION OF MATERIAL                              | LOG      | REMARKS                                 | TIME  |
|-------|------|------------------------------------------------------|----------|-----------------------------------------|-------|
| 1     |      | Shale fill                                           | 2000 bbl | Excavated to 2.0'                       | 9:00  |
| 2     |      | North wall                                           | 14900    | Disturbed - previously hit @ 2.0        | 12:30 |
| 3     |      | Limestone Rock (Foundation?)                         | 14500    | is LS shale possibly floor of PKC. Lot. | 11:10 |
| 4     |      | Wall.                                                | 15500    |                                         |       |
| 5     |      | Black cinder & slag fill                             | 16500    |                                         |       |
| 6     |      | Loose dump w/ LS rubble                              | 19500    |                                         |       |
| 7     |      | Black cinder & slag fill                             | 22000    |                                         |       |
| 8     |      | Loose dump w/ LS rubble                              | 22000    |                                         |       |
| 9     |      | (pipes noted embedded in LS found)                   |          |                                         |       |
| 10    |      | Tan & grey sand gravel cinder slag fill              |          |                                         |       |
| 11    |      | 12:40 Finish sampling & excavation                   |          |                                         |       |
| 12    |      | (PID reading by J. Huxley in Ambrose)                |          |                                         |       |
| 13    |      | Test pit backfilled w/ spot material from excavation |          |                                         |       |

PROJECT FUSRAP / SLOS

LOG NO. SLD 87283 (TP)

9:00  
12:30  
11:10  
11:05  
11:00

Minimal lateral from SLD 87283

11:00 EVAC  
SHEI CAS  
ON FIRE  
- PREV SAMPLE  
SEE BORING LOG  
12:20 return  
to site.  
PREVIOUS  
SAMPLE SEE  
BORING LOG

SLD 87283 (TP)

Anchor  
P.O.

STONE & WEBSTER ENGINEERING CORPORATION  
CALCULATION SHEET

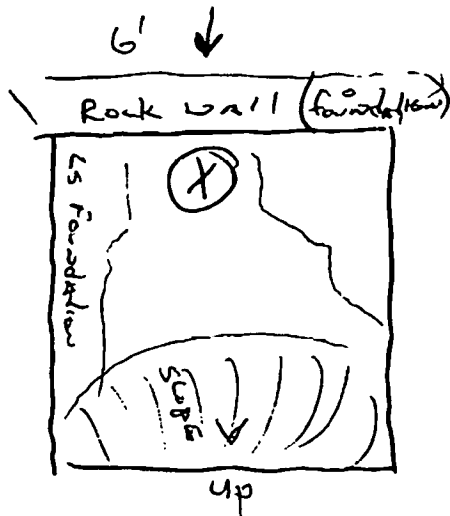
▲ 5010.65

| CALCULATION IDENTIFICATION NUMBER |                  |                 |                    | PAGE <u>213</u><br><u>SLD 67 283</u> |
|-----------------------------------|------------------|-----------------|--------------------|--------------------------------------|
| J.O. OR W.O. NO.                  | DIVISION & GROUP | CALCULATION NO. | OPTIONAL TASK CODE |                                      |

Test (A1) (SLD 67 283)

N  
↑  
SLD 67 283 TP

Beomen



Spoil Pile  
top  
2.0  
ft

Spoil Pile  
2.0 - 5.0'  
Material

bracket

| <b>HTRW DRILLING LOG</b>                                                                |  | DISTRICT <b>ST. LOUIS</b>                                                  | HOLE NUMBER<br><b>SLD 87 283</b> |
|-----------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------|----------------------------------|
| 1. COMPANY NAME <b>SHAW ENVIRONMENTAL</b>                                               |  | 2. DRILLING SUBCONTRACTOR <b>Shaw</b>                                      |                                  |
| 3. PROJECT <b>FUSRAP/SLDS</b>                                                           |  | 4. LOCATION <b>PSC Metals (NT 2)</b>                                       |                                  |
| 5. NAME OF DRILLER<br>I.E.C. <b>KEVIN MOONEY</b>                                        |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><b>CME J. DEERE</b>              |                                  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><b>CH 45 using HSA and 12k</b> |  | 8. HOLE LOCATION<br><b>See location sketch</b>                             |                                  |
| 9. SURFACE ELEVATION                                                                    |  | 10. DATE STARTED <b>6/16/05</b>                                            |                                  |
| 11. DATE COMPLETED <b>6/16/05</b>                                                       |  | 12. OVERBURDEN THICKNESS<br><b>N/A</b>                                     |                                  |
| 13. DEPTH DRILLED INTO ROCK<br><b>N/A</b>                                               |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br><b>NA</b>                             |                                  |
| 14. TOTAL DEPTH OF HOLE<br><b>6.0</b>                                                   |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><b>N/A</b> |                                  |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><b>N/A</b>                              |  | 18. GEOTECHNICAL SAMPLES                                                   |                                  |
| 19. TOTAL NUMBER OF CORE BOXES<br><b>0</b>                                              |  | 20. SAMPLES FOR CHEMICAL ANALYSIS                                          |                                  |
| 21. TOTAL CORE RECOVERY <b>0%</b>                                                       |  | 22. DISPOSITION OF HOLE                                                    |                                  |
| 23. SIGNATURE OF INSPECTOR<br><b>[Signature]</b>                                        |  | 24. LOCATION SKETCH/COMMENTS                                               |                                  |

Witnessed by: \_\_\_\_\_ SCALE: Not to Scale

|                            |                            |
|----------------------------|----------------------------|
| PROJECT <b>FUSRAP/SLDS</b> | HOLE NO. <b>SLD 87 283</b> |
|----------------------------|----------------------------|

RESAMPLE attempt of  
SLD 87 283 using test  
pit procedures.

S/19/06

PSC M2625 (NTI) S/19/05

| HTRW DRILLING LOG (CONTINUATION SHEET) |            |                                                                 |                |                  |          |          | WELL NO.           |
|----------------------------------------|------------|-----------------------------------------------------------------|----------------|------------------|----------|----------|--------------------|
| PROJECT FUSRAP / SLDS                  |            |                                                                 | WELL NO. M2625 |                  |          | DATE     | 5.8.5              |
| ELEV (ft)                              | DEPTH (ft) | DESCRIPTION OF MATERIALS                                        | WELL LOG       | WELL LOG         | WELL LOG | WELL LOG | WELL LOG           |
|                                        | 1          | Bore drill w/<br>pne through<br>obstruction.                    |                |                  |          |          |                    |
|                                        | 2          | Rocky bouldry<br>stone & debris<br>fill                         |                |                  |          |          |                    |
| Fill                                   | 3          | Not sampled<br>(from cuttings<br>& boring inspection)           |                |                  |          |          |                    |
|                                        | 4          |                                                                 |                |                  |          |          |                    |
|                                        | 5          | Top loose sand<br>Gravel under<br>sand fill -<br>mostly missing | 6500           | 201.0 ft<br>RELU |          | 4        |                    |
|                                        | 6          |                                                                 |                |                  |          | 3        |                    |
|                                        |            |                                                                 |                |                  |          | 2        |                    |
| CL                                     | 7          | REL - brown moist<br>silty clay (inside)                        |                | tip is<br>OK     |          | 2        | inside soil        |
|                                        |            | EOR 7.0                                                         | 4500           |                  |          |          |                    |
|                                        | 8          | Boring back -<br>filled w/<br>boulder chips                     |                |                  |          |          |                    |
|                                        | 9          |                                                                 |                |                  |          |          |                    |
|                                        |            | REL OK 6/7/05                                                   |                |                  |          |          |                    |
|                                        | 10         |                                                                 |                |                  |          |          |                    |
| PROJECT FUSRAP / SLDS                  |            |                                                                 |                |                  |          |          | WELL NO. SCD 87283 |

Rocky  
Rocky

11:20  
Start

11:45

Check w/  
usage  
before  
moving

PSC (NT1)

5/19/05

5/19/05

| HTRW DRILLING LOG (CONTINUATION SHEET) |      |                                                |           |                       |                |                | DATE                                                         | TIME |
|----------------------------------------|------|------------------------------------------------|-----------|-----------------------|----------------|----------------|--------------------------------------------------------------|------|
| PROJECT FUSRAP / SLDS                  |      |                                                |           | DRILLER M. McCARRIN   |                |                | SLD#                                                         | 7283 |
|                                        |      |                                                |           |                       |                |                | 4                                                            | 5    |
| DEPTH                                  | FEET | DESCRIPTION OF MATERIAL                        | LOG       | REMARKS               | TESTS          | SLW COUNT      | EQUIP                                                        |      |
| fill                                   | 1    | Brown + Tan SAND GRADE DRIVEWAY (111)          | 6800<br>0 |                       | Archival       | 9              | Cullings show same red - ool material as oolite base - 10'2x |      |
|                                        |      |                                                | 6500<br>0 |                       |                | 9              |                                                              |      |
|                                        |      | Black cinders SLAC fill                        | 6300<br>0 |                       | Archival       | 6              |                                                              |      |
|                                        |      | ORANGE CRACKED BRICK (stower)                  | 6500<br>0 |                       |                | 6              |                                                              |      |
|                                        | 2    |                                                |           | 21' recou             |                | 50 B LESS 2" P | H4 ubale.                                                    |      |
| cut<br>Landside<br>Recovery            | 3    |                                                |           |                       |                |                |                                                              |      |
|                                        | 4    |                                                |           |                       |                | 73             |                                                              |      |
|                                        | 5    | Fractured LS fill                              |           | Scatter - 2 Recovery  |                | 74             |                                                              |      |
|                                        |      |                                                |           | 2 8' fill almost full |                | 23             |                                                              |      |
|                                        | 6    |                                                |           |                       |                | 26             |                                                              |      |
| CL                                     |      | Brown (NAT. 12614) SILTY CLAY med stiff, moist | 7000<br>0 |                       |                | 3?             |                                                              |      |
|                                        | 7    |                                                | 7000<br>0 | Archival 11:00        | Archival 11:00 | 4?             |                                                              |      |
|                                        |      | YEL-brown (w/ MOH) SILTY CLAY (7.611)          | 7000<br>0 |                       |                | 5?             |                                                              |      |
|                                        | 8    | W/ sand & gravel bits                          | 7000<br>0 |                       |                | 6?             |                                                              |      |
|                                        | 9    | EOB 6.0                                        |           |                       |                |                |                                                              |      |
|                                        |      | Boeing backfilled w/ Bond. Chips               |           |                       |                |                |                                                              |      |
|                                        |      | 11:20 finish                                   |           |                       |                |                |                                                              |      |
|                                        | 10   | VED 10K 617705                                 |           |                       |                |                |                                                              |      |

10:00  
10:23

10:20  
10:25  
11:08

10:00  
10:25

PROJECT

FUSRAP / SLDS

ROLL NO.

SLD# 7283

PSC METAL (NTI)

5/18/05

Handwritten notes:

- S.D. 87293
- S.D. 87293
- S.D. 87293

83

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                            |                                 |                                                          |                       |                | WELL NUMBER<br>SLD 87283 |
|----------------------------------------|----------------------------------------------------------------------------|---------------------------------|----------------------------------------------------------|-----------------------|----------------|--------------------------|
| PROJECT<br>Fuznar / SLS                |                                                                            | INSPECTOR<br>Mike McCarron      |                                                          | SHEET<br>3 of 5       |                |                          |
| DEPTH<br>(ft)                          | DESCRIPTION OF MATERIALS                                                   | FIELD SAMPLE<br>NO. OR S.D. NO. | RECORD SAMPLE<br>NO. OR S.D. NO.                         | ANALYSIS<br>LABOR NO. | ALLOY<br>COUNT |                          |
| 0.0                                    | Gray silt clay fill<br>dry                                                 | 6500                            | 2.0                                                      | SLD<br>87283          | 5007           |                          |
| 1.0                                    | Brown - dry<br>sand & gravel fill                                          | 6504                            | 2.0                                                      |                       | 70             |                          |
| 1.0                                    | Red<br>fill & back<br>dry                                                  | 6000                            |                                                          | SLD<br>87293          | 15             |                          |
| 2.0                                    | brown<br>sand & gravel fill<br>dry                                         | 6000                            |                                                          |                       | 26             |                          |
| 3.0                                    | Rocky bouldery<br>stone debris<br>& fill                                   |                                 | No<br>Recovery<br>to be<br>Redrilled                     |                       | 12             |                          |
| 4.0                                    |                                                                            |                                 |                                                          |                       | 5              |                          |
| 5.0                                    |                                                                            |                                 |                                                          |                       | 5              |                          |
| 6.0                                    |                                                                            |                                 |                                                          |                       | 6              |                          |
| 7.0                                    |                                                                            |                                 |                                                          |                       | 4              |                          |
| 8.0                                    |                                                                            |                                 |                                                          |                       | 16             |                          |
| 9.0                                    | Tan & gray<br>sand gravel under<br>slur fill                               |                                 | 8' Recovery<br>could not<br>be<br>No Recovery<br>Redrill |                       | 11             |                          |
| 10.0                                   |                                                                            |                                 |                                                          |                       | 12             |                          |
| 11.0                                   | Brown<br>silt clay<br>med stiff, moist                                     | 6500                            |                                                          |                       | 3              |                          |
| 12.0                                   | Yellow tan (w/ mott)<br>silty clay (? fill)<br>w/ some sand/gravel<br>bits | 7000                            | 2.0                                                      | SLD<br>87294          | 4              |                          |
| 13.0                                   | mod stiff<br>moist                                                         | 6500                            | 2.0                                                      |                       | 5              |                          |
| 14.0                                   |                                                                            | 6500                            |                                                          | Analysis              | 8              |                          |
| 15.0                                   | EOB 8.0                                                                    |                                 |                                                          |                       |                |                          |
| 16.0                                   | bore backfilled<br>w/ bentonite                                            |                                 |                                                          |                       |                |                          |
| 17.0                                   |                                                                            |                                 |                                                          |                       |                |                          |
| 18.0                                   |                                                                            |                                 |                                                          |                       |                |                          |
| 19.0                                   |                                                                            |                                 |                                                          |                       |                |                          |
| 20.0                                   |                                                                            |                                 |                                                          |                       |                |                          |

4:30 finish

4/7/05

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                                |  | DISTRICT <u>St. Louis</u>                                              |  | HOLE NUMBER: <u>SLD 87283</u>                                      |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------|--|------------------------------------------------------------------------|--|--------------------------------------------------------------------|--|
| 1. COMPANY NAME <u>SHAW E&amp;I</u>                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                |  | 2. DRILLING SUBCONTRACTOR <u>NA - SHAW</u>                             |  | SHEET <u>2</u> OF <u>5</u>                                         |  |
| 3. PROJECT <u>FUGRAD SLD</u>                                                                                                                                                                                                                                                                                                                                                                                               |  |                                                |  | 4. LOCATION <u>PSC METALS (NTI)</u>                                    |  |                                                                    |  |
| 5. NAME OF DRILLER <u>Dan Gatto</u>                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                |  | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>CME 75</u>                   |  |                                                                    |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>4.5 HSA</u><br><u>ANT RODS</u>                                                                                                                                                                                                                                                                                                                                    |  |                                                |  | 8. HOLE LOCATION <u>NA</u>                                             |  |                                                                    |  |
| 3.5 SPIN SPOON SAMPLER UNLESS OTHERWISE NOTED                                                                                                                                                                                                                                                                                                                                                                              |  |                                                |  | 9. SURFACE ELEVATION <u>424.5</u>                                      |  |                                                                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                |  | 10. DATE STARTED <u>5/18/05</u>                                        |  | 11. DATE COMPLETED <u>5/19/05</u>                                  |  |
| 12. OVERBURDEN THICKNESS <u>NA</u>                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                |  | 15. DEPTH GROUNDWATER ENCOUNTERED <u>NA</u>                            |  |                                                                    |  |
| 13. DEPTH DRILLED INTO ROCK <u>NA</u>                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>NA</u> |  |                                                                    |  |
| 14. TOTAL DEPTH OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>NA</u>                 |  |                                                                    |  |
| 18. GEOTECHNICAL SAMPLES <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                               |  | DISTURBED <input checked="" type="checkbox"/>  |  | UNDISTURBED <input checked="" type="checkbox"/>                        |  | 19. TOTAL NUMBER OF CORE BOXES <input checked="" type="checkbox"/> |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                          |  | TOC <input checked="" type="checkbox"/>        |  | METALS <input checked="" type="checkbox"/>                             |  | OTHER (SPECIFY) <u>RAV, LOGGAS</u>                                 |  |
| <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                        |  | <input checked="" type="checkbox"/>            |  | <input checked="" type="checkbox"/>                                    |  | OTHER (SPECIFY) <u>NA</u>                                          |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                    |  | SACRIFICED <input checked="" type="checkbox"/> |  | MONITORING WELL <input checked="" type="checkbox"/>                    |  | OTHER (SPECIFY) <input checked="" type="checkbox"/>                |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                            |  | <input checked="" type="checkbox"/>            |  | <input checked="" type="checkbox"/>                                    |  | 23. SIGNATURE OF INSPECTOR <u>2626</u>                             |  |
| <div style="display: flex; justify-content: space-between;"> <span>LOCATION SKETCH/COMMENTS</span> <span>SCALE:</span> </div> <div style="height: 300px; border: 1px dotted black; position: relative; margin-top: 10px;"> <!-- Hand-drawn sketch --> <div style="position: absolute; top: 10%; left: 10%;"> <p>← 63 →</p> <p>SLD 87283</p> <p>PSC METALS</p> <p>WORTH IN AS? I</p> <p>BLD</p> <p>RESPUR</p> </div> </div> |  |                                                |  |                                                                        |  |                                                                    |  |
| PROJECT                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                |  |                                                                        |  | HOLE NO. <u>SLD 87283</u>                                          |  |



| <b>HTRW DRILLING LOG</b>                                                                                                                                                                                           |  | DISTRICT<br><b>ST. LOUIS</b>                                               | HOLE NUMBER<br><b>SLD 87263</b> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------|---------------------------------|
| 1. COMPANY NAME<br><b>SHAW ENVIRONMENTAL</b>                                                                                                                                                                       |  | 2. DRILLING SUBCONTRACTOR<br><b>SHAN</b>                                   |                                 |
| 3. PROJECT<br><b>FUSRAP/SLDS</b>                                                                                                                                                                                   |  | 4. LOCATION<br><b>PSC Metals (North End)</b>                               |                                 |
| 5. NAME OF DRILLER<br><b>Dan Gotto</b>                                                                                                                                                                             |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><b>CME 75</b>                    |                                 |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><b>CME 75 using 1 1/2" HSA and 1 1/2" 3" split speed auger</b><br><b>OTHERS: none</b><br><b>PID 574532 NA 14997 LUD</b><br><b>cal. date: 5/19/05 Bkg:</b> |  | 8. HOLE LOCATION<br>See location sketch                                    |                                 |
| 12. OVERBURDEN THICKNESS<br><b>N/A</b>                                                                                                                                                                             |  | 9. SURFACE ELEVATION<br><b>424.5</b>                                       |                                 |
| 13. DEPTH DRILLED INTO ROCK<br><b>N/A</b>                                                                                                                                                                          |  | 10. DATE STARTED<br><b>5/18/05</b>                                         |                                 |
| 14. TOTAL DEPTH OF HOLE<br><b>8.0</b>                                                                                                                                                                              |  | 11. DATE COMPLETED<br><b>5/19/05</b>                                       |                                 |
| 18. GEOTECHNICAL SAMPLES<br><input checked="" type="checkbox"/> DISTURBED <input checked="" type="checkbox"/> UNDISTURBED                                                                                          |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br><b>NA</b>                             |                                 |
| 20. SAMPLES FOR CHEMICAL ANALYSIS<br><input checked="" type="checkbox"/> VOC <input checked="" type="checkbox"/> METALS <input checked="" type="checkbox"/> OTHER (SPECIFY) RAD                                    |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><b>N/A</b> |                                 |
| 22. DISPOSITION OF HOLE<br><input checked="" type="checkbox"/> BACKFILLED <input checked="" type="checkbox"/> MONITORING VIEL <input checked="" type="checkbox"/> OTHER (SPECIFY) N/A                              |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><b>N/A</b>                 |                                 |
|                                                                                                                                                                                                                    |  | 19. TOTAL NUMBER OF CORE BOXES<br><b>0</b>                                 |                                 |
|                                                                                                                                                                                                                    |  | 21. TOTAL CORE RECOVERY %<br><b>0%</b>                                     |                                 |
|                                                                                                                                                                                                                    |  | 23. SIGNATURE OF INSPECTOR<br><b>Z-L Z-L</b>                               |                                 |

**LOCATION SKETCH/COMMENTS** Witnessed by: \_\_\_\_\_ SCALE: Not to Scale

(REDRILLS started 5/19/05)

Trace <5%  
Few 5-10%  
Little 15-25%  
Some 20-35%  
Mostly 50-100%

**PSC METALS NORTH END**

**BAG**

**RA**

|                               |                              |
|-------------------------------|------------------------------|
| PROJECT<br><b>FUSRAP/SLDS</b> | HOLE NO.<br><b>SLD 87263</b> |
|-------------------------------|------------------------------|

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                            |                             |                  |                  |                  | WELL NUMBER<br>SLD 76943                           |
|----------------------------------------|----------------------------------------------------------------------------|-----------------------------|------------------|------------------|------------------|----------------------------------------------------|
| PROJECT<br>FUSRAP/SLDS                 |                                                                            | OPERATOR<br>Phillip Statler |                  | DATE<br>6-2-03   |                  | WELL DEPTH<br>1040                                 |
| DEPTH<br>FT                            | DESCRIPTION OF MATERIALS                                                   | WELL DEPTH<br>FT            | WELL DEPTH<br>FT | WELL DEPTH<br>FT | WELL DEPTH<br>FT | WELL DEPTH<br>FT                                   |
| SM                                     | <p>TD: 0.6' below<br/>top surface<br/>of gutter</p> <p>6-2-03<br/>1040</p> | 700<br>0.0                  |                  | SLD<br>76943     | 6-2-03<br>1040   | <p>Background</p> <p>NAI: 4800</p> <p>PXI: 0.0</p> |

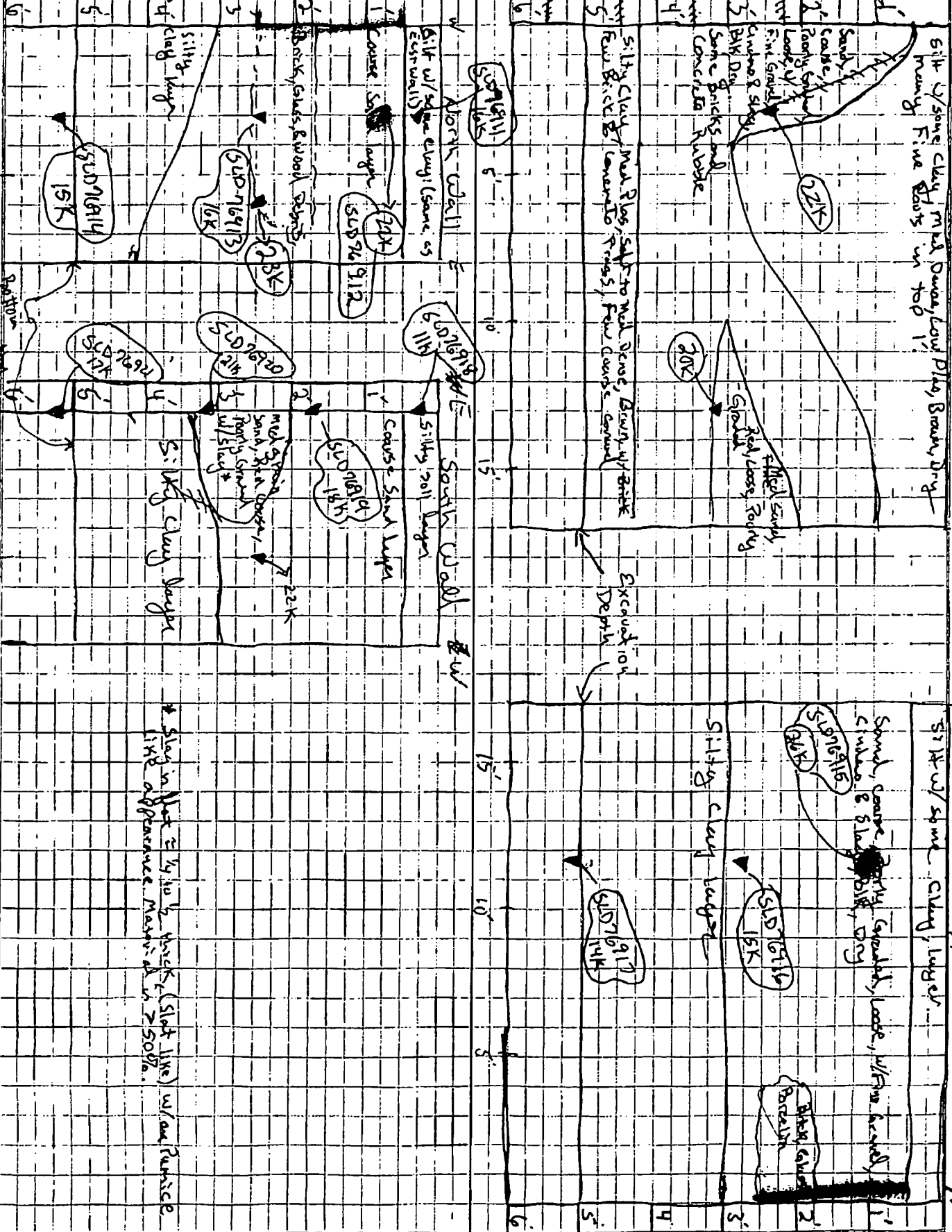
| HTRW DRILLING LOG                                                                                                                                                 |  |                                |  | DISTRICT                                                                                                                                                                      |  | MOLE NUMBER                        |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------|--|
| 1. COMPANY NAME<br><b>Shaw E &amp; I</b>                                                                                                                          |  |                                |  | 2. DRILLING SUBCONTRACTOR<br><b>MES, Inc. P.S.</b>                                                                                                                            |  | 3. MOLE NUMBER<br><b>SLD 76943</b> |  |
| 3. PROJECT<br><b>FUSRAP/SLDS</b>                                                                                                                                  |  |                                |  | 4. LOCATION<br><b>PSC Metals N.T.V.P.</b>                                                                                                                                     |  |                                    |  |
| 5. NAME OF DRILLER<br><b>Chris Anthony P.S.</b>                                                                                                                   |  |                                |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><b>Diedrich D-120 P.S.</b>                                                                                                          |  |                                    |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><b>2" x 3" split screen, hand trowel</b>                                                                 |  |                                |  | 8. HOLE LOCATION<br><b>See location sketch</b>                                                                                                                                |  |                                    |  |
| 9. SURFACE ELEVATION<br><b>N/A</b>                                                                                                                                |  |                                |  | 10. DATE STARTED<br><b>6-2-03</b>                                                                                                                                             |  |                                    |  |
| 11. DATE COMPLETED<br><b>6-2-03</b>                                                                                                                               |  |                                |  | 12. OVERBURDEN THICKNESS<br><b>N/A</b>                                                                                                                                        |  |                                    |  |
| 13. DEPTH DRILLED INTO ROCK<br><b>N/A</b>                                                                                                                         |  |                                |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><b>N/A</b>                                                                                                    |  |                                    |  |
| 15. TOTAL DEPTH OF HOLE<br><b>0.3 FT BGS</b>                                                                                                                      |  |                                |  | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><b>N/A</b>                                                                                                                    |  |                                    |  |
| 17. GROUNDWATER SAMPLES                                                                                                                                           |  | 18. TOTAL NUMBER OF CORE ROCKS |  | 19. TOTAL NUMBER OF CORE ROCKS                                                                                                                                                |  | 20. TOTAL CORE RECOVERY %          |  |
| 21. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                 |  | 22. DEPOSITION OF HOLE         |  | 23. DEPOSITION OF HOLE                                                                                                                                                        |  | 24. DEPOSITION OF HOLE             |  |
| 25. DEPOSITION OF HOLE                                                                                                                                            |  | 26. DEPOSITION OF HOLE         |  | 27. DEPOSITION OF HOLE                                                                                                                                                        |  | 28. DEPOSITION OF HOLE             |  |
| 29. DEPOSITION OF HOLE                                                                                                                                            |  | 30. DEPOSITION OF HOLE         |  | 31. DEPOSITION OF HOLE                                                                                                                                                        |  | 32. DEPOSITION OF HOLE             |  |
| LOCATION SKETCH/COMMENTS                                                                                                                                          |  |                                |  | WITNESSED BY: <b>Philip Statler</b>                                                                                                                                           |  |                                    |  |
| <p>↑</p> <p>N</p> <p>(Sample collected from lower portion of soil in gutter)</p> <p>gutter</p> <p>SLD 76943</p> <p>Southern Bldg. at PSC Metals North Tract 1</p> |  |                                |  | <p>SCALE: Not to Scale</p> <p>Terms used to describe %</p> <p>Trace - &lt; 5 %</p> <p>Few - 5-10 %</p> <p>Little - 15-25 %</p> <p>Some - 20-35 %</p> <p>Mostly - 50-100 %</p> |  |                                    |  |
| PROJECT<br><b>FUSRAP/SLDS</b>                                                                                                                                     |  |                                |  | MOLE NO.<br><b>SLD 76943</b>                                                                                                                                                  |  |                                    |  |

1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |           |                                                                   |                    |                    |                    |                       | WELL NUMBER<br>SLD 76942            |
|----------------------------------------|-----------|-------------------------------------------------------------------|--------------------|--------------------|--------------------|-----------------------|-------------------------------------|
| PROJECT<br>FUSAP/SLDS                  |           | INVESTIGATOR<br>Philip Statler                                    |                    |                    |                    |                       | WELL DEPTH<br>202 FEET              |
| WELL ID                                | WELL TYPE | DESCRIPTION OF MATERIALS                                          | WELL DEPTH<br>FEET | WELL DEPTH<br>FEET | WELL DEPTH<br>FEET | WELL DEPTH<br>FEET    | WELL DEPTH<br>FEET                  |
| SM                                     |           | st. fine sand, organic matter (moss, roots, etc.) 81K.            | 700<br>0.6         |                    | SLD<br>76942       | 6-2-03<br>1035        |                                     |
|                                        |           | TD: 0.3' below<br>top surface<br>of gutter<br>JPS, 6-2-03<br>1035 |                    |                    |                    |                       | Background<br>NAT: 4800<br>PID: 0.0 |
| PROJECT<br>FUSAP/SLDS                  |           |                                                                   |                    |                    |                    | WELL NO.<br>SLD 76942 |                                     |

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                |  | DISTRICT St. Louis                                                    |  | HOLE NUMBER SLD 76942     |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------|--|-----------------------------------------------------------------------|--|---------------------------|--|
| 1. COMPANY NAME Shaw E & I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                |  | 2. DRILLING SUBCONTRACTOR MES, Inc. P.S.                              |  | SHEET 1 of 2              |  |
| 3. PROJECT FUSRAP/SLDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                |  | 4. LOCATION PSC Metals N.T.V.P.                                       |  |                           |  |
| 5. NAME OF DRILLER Chris Anthony P.S.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                |  | 6. MANUFACTURER'S DESIGNATION OF DRILL <del>Diedrich</del> D-120 P.S. |  |                           |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <del>Plodrich D-120</del><br>using DE-HSA and 2" C.S. split screen, and Frowell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                |  | 8. HOLE LOCATION See location sketch                                  |  |                           |  |
| 9. SURFACE ELEVATION N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                |  | 10. DATE STARTED 6-2-03                                               |  |                           |  |
| 11. DATE COMPLETED 6-2-03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                |  | 12. OVERBURDEN THICKNESS N/A                                          |  |                           |  |
| 13. DEPTH DRILLED INTO ROCK N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED N/A      |  |                           |  |
| 15. TOTAL DEPTH OF HOLE 0.3 FT BGS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                |  | 16. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) N/A                      |  |                           |  |
| 17. GEOCHEMICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | 18. TOTAL NUMBER OF CORE BOXES |  | 19. SAMPLES FOR CHEMICAL ANALYSIS                                     |  | 20. TOTAL CORE RECOVERY % |  |
| DISTURBED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | UNDISTURBED                    |  | VOC                                                                   |  | METALS                    |  |
| OTHER (SPECIFY)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | OTHER (SPECIFY)                |  | OTHER (SPECIFY)                                                       |  | OTHER (SPECIFY)           |  |
| 21. DEPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | 22. DISPOSITION OF HOLE        |  | 23. DISPOSITION OF HOLE                                               |  | 24. DISPOSITION OF HOLE   |  |
| Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | N/A                            |  | N/A                                                                   |  | N/A                       |  |
| LOCATION SKETCH/COMMENTS Witnessed by: Phillip Statler SCALE: Not to Scale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                |  |                                                                       |  |                           |  |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>↑<br/>N</p> </div> <div style="width: 45%; border: 1px solid black; padding: 5px;"> <p>Terms used to describe %</p> <p>Trace - &lt; 5 %</p> <p>Few - 5 - 10 %</p> <p>Little - 15 - 25 %</p> <p>Some - 20 - 35 %</p> <p>Mostly - 50 - 100 %</p> </div> </div> <div style="text-align: center; margin-top: 20px;"> <p>(Sample collected from upper portion of soil in gutter)</p> </div> <div style="text-align: center; margin-top: 20px;"> <p>SLD 76942</p> </div> <div style="text-align: center; margin-top: 20px;"> <p>← gutter → gutter</p> </div> <div style="text-align: center; margin-top: 20px;"> <p>Southern Bldg. at PSC<br/>Metals North Tract 1</p> </div> |  |                                |  |                                                                       |  |                           |  |
| PROJECT FUSRAP/SLDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                |  |                                                                       |  | HOLE NO. SLD 76942        |  |

| EXCAVATION LOG         |                     | Excavation Dimensions: |  | Background Readings: |      | Excavation ID: Test Pit 76911 |  |
|------------------------|---------------------|------------------------|--|----------------------|------|-------------------------------|--|
| Company: Shaw          | Start Date: 5-28-03 | Length:                |  | NAI:                 | PID: | Location: P&S Metals          |  |
| Project: 725575        | End Date:           | Width:                 |  | 10K                  | 0.0  | East side of CURP Elev.       |  |
| Geologist: M. Cummings |                     | Depth:                 |  | Coats                | PPM  | Tracts (Area H of PSC)        |  |



Witnessed by: \_\_\_\_\_  
 Page 2 of 2

|                        |                     |                        |        |                      |                         |                                     |  |
|------------------------|---------------------|------------------------|--------|----------------------|-------------------------|-------------------------------------|--|
| EXCAVATION LOG         |                     | Excavation Dimensions: |        | Background Readings: |                         | Excavation ID: SLO Test Pit - 76911 |  |
| Company: Shaw          | Start Date: 6-28-03 | Length: 17'            | NAI:   | PID:                 | Location: PSC Metals    |                                     |  |
| Project: 275575        | End Date:           | Width: 8'              | 10K    | 0.0                  | East Side of CUIVP Elev |                                     |  |
| Geologist: M. Cummings |                     | Depth: 5'              | Counts | PPM                  | Tracts (Area H) PSC     |                                     |  |

NOTES:

NOTES:

5070486 was ~~contaminated~~ (circled) confirmed at 1 yd w/in SOE of 1113 (R-224 driven). This pit is to assess extent of contamination.

Positive Man

76911 Pit

excavated  
2800  
support

*M. Cummings*

| Sample ID | Depth   | Sample ID | Depth |
|-----------|---------|-----------|-------|
| 5076911   | 0.2-0.5 | 5076911   |       |
| 76912     | 7-10    | 76912     |       |
| 76913     | 2.5-2.8 | 76913     |       |
| 76914     | 5.2-5.5 | 76914     |       |
| 76915     | 1.2-1.6 | 76915     |       |
| 76916     | 2.7-3.0 | 76916     |       |
| 76917     | 5.0-5.3 | 76917     |       |
| 76918     | 0.2-0.5 | 76918     |       |
| 76919     | 1.7-2.0 | 76919     |       |
| 76920     | 3.2-3.5 | 76920     |       |
| 76921     | 5.2-5.3 | 76921     |       |

| Sample ID | Depth   | Sample ID | Depth |
|-----------|---------|-----------|-------|
| 5076911   | 0.2-0.5 | 5076911   |       |
| 76912     | 7-10    | 76912     |       |
| 76913     | 2.5-2.8 | 76913     |       |
| 76914     | 5.2-5.5 | 76914     |       |
| 76915     | 1.2-1.6 | 76915     |       |
| 76916     | 2.7-3.0 | 76916     |       |
| 76917     | 5.0-5.3 | 76917     |       |
| 76918     | 0.2-0.5 | 76918     |       |
| 76919     | 1.7-2.0 | 76919     |       |
| 76920     | 3.2-3.5 | 76920     |       |
| 76921     | 5.2-5.3 | 76921     |       |

RADIOLOGICAL SURVEY FORM

Sample ID SLD 75728  
psc

Date Sample was collected: 4-8-03

Date Sample was analyzed: 4/30/03

Instrument #1 Background 6900 cpm

Instrument #2 Background 4078

Count rate of Empty Pan: Beta 86

| Sample Depth<br>(feet) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                        |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 0-0.5                  | 7600                                                      | 700                               | 4972                                                  | 894                           | 151                                | 65       |
| 0.5-1.0                | 7600                                                      | 700                               | 4293                                                  | 215                           | 151                                | 65       |
| 1.0-1.5                | 7000                                                      | 100                               | 4656                                                  | 528                           | 158                                | 72       |
| 1.5-2.0                | 6800                                                      | -100                              | 4475                                                  | 397                           | 145                                | 59       |
| 2.0-2.5                | 7100                                                      | 200                               | 4628                                                  | 550                           | 148                                | 62       |
| 2.5-3.0                | 8100                                                      | 1200                              | 4457                                                  | 379                           | 184                                | 98       |
| 3.0-3.5                | 7700                                                      | 800                               | 4526                                                  | 448                           | 135                                | 49       |
| 3.5-4.0                | 7300                                                      | 400                               | 4569                                                  | 491                           | 143                                | 57       |
| 4.0-4.5                |                                                           |                                   |                                                       |                               |                                    |          |
| 4.5-5.0                |                                                           |                                   |                                                       |                               |                                    |          |
| 5.0-5.5                |                                                           |                                   |                                                       |                               |                                    |          |
| 5.5-6.0                |                                                           |                                   |                                                       |                               |                                    |          |

SLD 75728

SLD 75729

SLD 75730



ENR FORM 50554-2, AUG 94

| HTRW DRILLING LOG                                                                                                               |  |  | DISTRICT                                                                                                       |  |  | HOLE NUMBER                                                          |  |  |
|---------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------------------------------------------------------------------------------------------|--|--|----------------------------------------------------------------------|--|--|
| 1. COMPANY NAME<br>Shaw E & I                                                                                                   |  |  | 2. DRILLING SUBCONTRACTOR<br>M.E.S., Inc. PS                                                                   |  |  | 3. SHEET<br>1 of 2                                                   |  |  |
| 4. PROJECT<br>FUSRAP/SLDS                                                                                                       |  |  | 5. LOCATION<br>PSC Metals N.T.V.P.                                                                             |  |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br>Diedrich D-120             |  |  |
| 7. NAME OF DRILLER<br>Chris Anthony PS                                                                                          |  |  | 8. HOLE LOCATION<br>See location sketch                                                                        |  |  | 9. SURFACE ELEVATION<br>N/A                                          |  |  |
| 10. SIZE AND TYPE OF DRILLING AND SAMPLING EQUIPMENT<br>Diedrich D-120 PC<br>Using HSA and<br>2 3/4" split spear.<br>hand auger |  |  | 11. DATE STARTED<br>4-8-03                                                                                     |  |  | 12. DATE COMPLETED<br>4-8-03                                         |  |  |
| 13. OVERBURDEN THICKNESS<br>N/A                                                                                                 |  |  | 14. DEPTH DRILLED INTO ROCK<br>N/A                                                                             |  |  | 15. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETION<br>N/A |  |  |
| 16. TOTAL DEPTH OF HOLE<br>470 FT BGS                                                                                           |  |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                                                            |  |  | 18. TOTAL NUMBER OF CORE BOXES                                       |  |  |
| 19. GEOLOGICAL SAMPLES                                                                                                          |  |  | 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                              |  |  | 21. TOTAL CORE RECOVERY                                              |  |  |
| 22. DEPOSITION OF SOIL                                                                                                          |  |  | 23. DEPOSITION OF SOIL                                                                                         |  |  | 24. DEPOSITION OF SOIL                                               |  |  |
| LOCATION SKETCH/COMMENTS                                                                                                        |  |  | WITNESSED BY: Philip Stotler                                                                                   |  |  | SCALE: Not to Scale                                                  |  |  |
|                                                                                                                                 |  |  | <p>Trace - &lt; 5 %<br/>Few - 5 - 10 %<br/>Little - 15 - 25 %<br/>Some - 20 - 35 %<br/>Mostly - 50 - 100 %</p> |  |  | <p>SLD 75728</p>                                                     |  |  |
| PROJECT<br>FUSRAP/SLDS                                                                                                          |  |  | HOLE NO.<br>SLD 75728                                                                                          |  |  |                                                                      |  |  |

**IT Corporation**  
**FUSRAP SLDS 775575**

**RADIOLOGICAL SURVEY FORM**

Sample ID SLD 75726  
 PSC

Date Sample was collected: 4-8-03

Date Sample was analyzed: 4/30/03

Instrument #1 Background 6200 cpm

Instrument #2 Background 4078

Count rate of Empty Pan: Beta 86

| Sample Depth<br>(feet) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                        |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 0-0.5                  | 6000                                                      | -200                              | 4589                                                  | 511                           | 130                                | 44       |
| 0.5-1.0                | 6300                                                      | 100                               | 4600                                                  | 522                           | 187                                | 101      |
| 1.0-1.5                | 6500                                                      | 300                               | 4887                                                  | 809                           | 144                                | 58       |
| 1.5-2.0                | 6100                                                      | -100                              | 4832                                                  | 754                           | 139                                | 53       |
| 2.0-2.5                |                                                           |                                   |                                                       |                               |                                    |          |
| 2.5-3.0                |                                                           |                                   |                                                       |                               |                                    |          |
| 3.0-3.5                |                                                           |                                   |                                                       |                               |                                    |          |
| 3.5-4.0                |                                                           |                                   |                                                       |                               |                                    |          |
| 4.0-4.5                |                                                           |                                   |                                                       |                               |                                    |          |
| 4.5-5.0                |                                                           |                                   |                                                       |                               |                                    |          |
| 5.0-5.5                |                                                           |                                   |                                                       |                               |                                    |          |
| 5.5-6.0                |                                                           |                                   |                                                       |                               |                                    |          |

SLD 75726

SLD 75727

SLD 75726  
 (archive)

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                             |                |                   |                   |                   |                   |
|----------------------------------------|---------------------------------------------------------------------------------------------|----------------|-------------------|-------------------|-------------------|-------------------|
| PROJECT                                |                                                                                             | LOCATION       |                   | HOLE NO.          |                   |                   |
| FUSRAP / JLOS                          |                                                                                             | Phillip Str Ho |                   | SLD 75726         |                   |                   |
| DATE                                   |                                                                                             | DATE           |                   | DATE              |                   |                   |
| 4-8-03                                 |                                                                                             | 4-8-03         |                   | 4-8-03            |                   |                   |
| DEPTH (ft)                             | SOIL DESCRIPTION                                                                            | RECOVERY (%)   | WATER CONTENT (%) | WATER CONTENT (%) | WATER CONTENT (%) | WATER CONTENT (%) |
| 0.0                                    | slty fine sand w/ some med. to coarse gravel, loose, poorly graded, dk. brn, to l/t, moist. | 100            | 0.0               | N/A               | SLD 75726         | 1020              |
| 1.0                                    | few cinders, few slag, trace brick frags.                                                   | 100            | 0.0               | N/A               | SLD 75727         | 1025              |
| 2.0                                    | low silty clay                                                                              | 300            | 0.0               | N/A               | SLD 75726         | 1030              |
| 3.0                                    |                                                                                             | 100            | 0.0               | N/A               | SLD 75726         | 1035              |
| 4.0                                    |                                                                                             |                |                   |                   |                   |                   |
| 5.0                                    |                                                                                             |                |                   |                   |                   |                   |
| 6.0                                    |                                                                                             |                |                   |                   |                   |                   |
| 7.0                                    |                                                                                             |                |                   |                   |                   |                   |
| 8.0                                    |                                                                                             |                |                   |                   |                   |                   |
| 9.0                                    |                                                                                             |                |                   |                   |                   |                   |
| 10.0                                   |                                                                                             |                |                   |                   |                   |                   |
| TD: 2.0' BGS                           |                                                                                             |                |                   | Backgrounds       |                   |                   |
| 4-8-03                                 |                                                                                             |                |                   | NAT: 6200         |                   |                   |
| 1030                                   |                                                                                             |                |                   | PTD: 0.0          |                   |                   |
|                                        |                                                                                             |                |                   | Backfilled        |                   |                   |
|                                        |                                                                                             |                |                   | horng w/          |                   |                   |
|                                        |                                                                                             |                |                   | native soil       |                   |                   |
|                                        |                                                                                             |                |                   | * Samples         |                   |                   |
|                                        |                                                                                             |                |                   | will be           |                   |                   |
|                                        |                                                                                             |                |                   | counted us-       |                   |                   |
|                                        |                                                                                             |                |                   | ing gas           |                   |                   |
|                                        |                                                                                             |                |                   | proportional      |                   |                   |
|                                        |                                                                                             |                |                   | meter (see        |                   |                   |
|                                        |                                                                                             |                |                   | attached          |                   |                   |
|                                        |                                                                                             |                |                   | sheet)            |                   |                   |
| FUSRAP / JLOS                          |                                                                                             |                |                   | SLD 75726         |                   |                   |

# HTRW DRILLING LOG

DISTRICT

St. Louis

SOLE NUMBER

SLD 75726

1. COMPANY NAME

Shaw E & I

2. DRILLING SUBCONTRACTOR

M.E.S., Inc. PS

3. SHEET NUMBER

4. PROJECT

FUSRAP/SLDS

5. LOCATION

PSC Metals N.T.V.P.

6. NAME OF DRILLER

Chris Anthony P.S.

7. MANUFACTURER'S DESIGNATION OF DRILL

Diedrich D-120 PS

8. SIZE AND TYPE OF DRILLING AND SAMPLING EQUIPMENT

Planch P-130 PS

9. HOLE LOCATION

See location sketch

Using HSA and

2" x 2" split spoon.

10. SURFACE ELEVATION

N/A

hand auger

PID 4-8-03 N/A

LUB 10/11/03

11. DATE STARTED

4-8-03

12. DATE COMPLETED

4-8-03

13. OVERSAMPLING TECHNIQUES

N/A

14. DEPTH GROUNDWATER ENCOUNTERED

N/A

15. DEPTH DRILLED INTO ROCK

N/A

16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED

N/A

17. TOTAL DEPTH OF HOLE

2.0 FT BGS

18. OTHER WATER LEVEL MEASUREMENTS (IF ANY)

N/A

19. GEOTECHNICAL SAMPLES

DESTROYED

OVERSAMPLING

20. TOTAL NUMBER OF CORE LOGS

21. ANALYSIS OF GEOTECHNICAL ANALYSIS

YES

NO

22. ANALYSIS OF CORE LOGS

YES

NO

23. LOCATION OF HOLE

YES

NO

24. ANALYSIS OF CORE LOGS

YES

NO

LOCATION SKETCH/COMMENTS

Witnessed by: Phillip Statler

SCALE: Not to Scale

N

SLD 75726 (HK)

Terms used to describe %  
Trace - 5-5 %  
Few - 5-10 %  
Little - 15-25 %  
Some - 20-35 %  
Mostly - 50-100 %

SLD 75726

TRUCK

SLD 75708

RAIL CAR

TRAILER

PROJECT

FUSRAP/SLDS

SOLE NO.

SLD 75726

**IT Corporation**  
**FUSRAP SLDS 775575**

**RADIOLOGICAL SURVEY FORM**

Sample ID SLD 75723  
 PSC

Date Sample was collected: 3-17-03

Date Sample was analyzed: 3-18-03

Instrument #1 Background 5600 cpm

Instrument #2 Background 5211 cpm

Count rate of Empty Pan: Beta 74 cpm

| Sample Depth<br>(feet) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                        |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 0-0.5                  | 5800                                                      | 200                               | 5733                                                  | 522                           | 192                                | 118      |
| 0.5-1.0                | 6400                                                      | 800                               | 5668                                                  | 457                           | 157                                | 83       |
| 1.0-1.5                | 6400                                                      | 800                               | 5774                                                  | 563                           | 123                                | 49       |
| 1.5-2.0                | 6200                                                      | 600                               | 5749                                                  | 538                           | 171                                | 97       |
| 2.0-2.5                | 6000                                                      | 400                               | 5311                                                  | 100                           | 153                                | 79       |
| 2.5-3.0                | 6400                                                      | 800                               | 5395                                                  | 184                           | 141                                | 67       |
| 3.0-3.5                | 6000                                                      | 400                               | 5270                                                  | 59                            | 156                                | 82       |
| 3.5-4.0                |                                                           |                                   |                                                       |                               |                                    |          |
| 4.0-4.5                |                                                           |                                   |                                                       |                               |                                    |          |
| 4.5-5.0                |                                                           |                                   |                                                       |                               |                                    |          |
| 5.0-5.5                |                                                           |                                   |                                                       |                               |                                    |          |
| 5.5-6.0                |                                                           |                                   |                                                       |                               |                                    |          |

SLD 75723

SLD 75724

SLD 75725

N A

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                               |                              |               |                    |                    |                   | WELL NUMBER<br>SLD 75723                                                                                                                                        |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------|------------------------------|---------------|--------------------|--------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROJECT<br>FUSRAP / SLDs               |                                                                                                               | INSPECTOR<br>Phillip Statler |               | SHEET<br>2 of 2    |                    | SHEET             |                                                                                                                                                                 |
| DEPTH<br>IN                            | DESCRIPTION OF MATERIALS                                                                                      | GRAIN SIZE<br>IN             | RECOVERY<br>% | WATER CONTENT<br>% | WATER CONTENT<br>% | REMARKS           |                                                                                                                                                                 |
| 1.0                                    | silty fine sand w/ few med gravel, loose, poorly graded blk, moist, trace brick frags, few cinders, few clay. | 200<br>0.0                   | 20            | 0.0-0.5<br>1540    | N/A                | SLD 75723<br>1540 |                                                                                                                                                                 |
|                                        |                                                                                                               | 800<br>0.0                   | 20            | 0.5-1.0<br>1545    | N/A                |                   |                                                                                                                                                                 |
|                                        |                                                                                                               | 800<br>0.0                   | 20            | 1.0-1.5<br>1547    | N/A                |                   |                                                                                                                                                                 |
| 2.0                                    | few coarse gravel, low clay, wet, cinders and clay absent.                                                    | 600<br>0.0                   |               | 1.5-2.0<br>1550    | N/A                | SLD 75723<br>1550 |                                                                                                                                                                 |
|                                        |                                                                                                               | 400<br>0.0                   | 1.5           | 2.0-2.5<br>1600    | N/A                |                   |                                                                                                                                                                 |
|                                        |                                                                                                               | 800<br>0.0                   | 1.5           | 2.5-3.0<br>1605    | N/A                | SLD 75723<br>1605 |                                                                                                                                                                 |
| 3.0                                    | some clay, ft. brn. some med to coarse gravel,                                                                | 400<br>0.0                   |               | 3.0-3.5<br>1607    | N/A                |                   | Hit rock at 3.5' BGS                                                                                                                                            |
| 4.0                                    | TD: 3.5' BGS<br>3-17-03<br>1607                                                                               |                              |               |                    |                    |                   | Backgrounds:<br>NaI: 5600<br>PID: 0.0<br>Backfilled boring w/ 2.0 bags of bentonite chips.<br>* Samples counted w/ gas proportional meter (See attached sheet). |
| 5.0                                    |                                                                                                               |                              |               |                    |                    |                   |                                                                                                                                                                 |
| 6.0                                    |                                                                                                               |                              |               |                    |                    |                   |                                                                                                                                                                 |
| 7.0                                    |                                                                                                               |                              |               |                    |                    |                   |                                                                                                                                                                 |
| 8.0                                    |                                                                                                               |                              |               |                    |                    |                   |                                                                                                                                                                 |
| 9.0                                    |                                                                                                               |                              |               |                    |                    |                   |                                                                                                                                                                 |
| 10.0                                   |                                                                                                               |                              |               |                    |                    |                   |                                                                                                                                                                 |

| HTRW DRILLING LOG                                                                              |  |                                               |  | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER <u>SLD 75723</u> |  |
|------------------------------------------------------------------------------------------------|--|-----------------------------------------------|--|----------------------------------------------------------------------------|--|------------------------------|--|
| 1. COMPANY NAME<br><u>Shaw E &amp; I</u>                                                       |  | 2. DRILLING SUBCONTRACTOR<br><u>MES, Inc.</u> |  | P.S.                                                                       |  | SHEET <u>1</u> of <u>2</u>   |  |
| 3. PROJECT<br><u>FUSRAP/SLDS</u>                                                               |  |                                               |  | 4. LOCATION<br><u>PSC Metals - N.T.V.P.</u>                                |  |                              |  |
| 5. NAME OF DRILLER<br><u>Chris Anthony</u>                                                     |  |                                               |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>Diadrich D-120</u>            |  |                              |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>1 1/2" HSA and 2" split spoon.</u> |  |                                               |  | 8. HOLE LOCATION<br><u>See location sketch</u>                             |  |                              |  |
| 9. SURFACE ELEVATION<br><u>N/A</u>                                                             |  |                                               |  | 10. DATE STARTED<br><u>3-17-03</u>                                         |  |                              |  |
| 11. DATE COMPLETED<br><u>3-17-03</u>                                                           |  |                                               |  | 12. OVERBURDEN THICKNESS<br><u>N/A</u>                                     |  |                              |  |
| 13. DEPTH DRILLED INTO ROCK<br><u>N/A</u>                                                      |  |                                               |  | 14. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                              |  |
| 15. TOTAL DEPTH OF HOLE<br><u>3.5 FT BGS</u>                                                   |  |                                               |  | 16. OTHER WATER LEVEL MEASUREMENTS (SPGL-1)<br><u>N/A</u>                  |  |                              |  |
| 17. GEOLOGICAL SAMPLES                                                                         |  | 18. TOTAL NUMBER OF CORE BOXES                |  | 19. TOTAL CORE RECOVERY %                                                  |  |                              |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                              |  | 21. TOTAL CORE RECOVERY %                     |  | 22. DEPOSITION OF SOIL                                                     |  |                              |  |
| 23. SIGNATURE OF INSPECTOR                                                                     |  | 24. SCALE                                     |  | 25. TERMS USED TO DESCRIBE %                                               |  |                              |  |
| 26. LOCATION SKETCH/COMMENTS                                                                   |  | 27. WITNESSED BY                              |  | 28. SCALE                                                                  |  |                              |  |
| 29. LOCATION SKETCH/COMMENTS                                                                   |  | 30. WITNESSED BY                              |  | 31. SCALE                                                                  |  |                              |  |
| 32. LOCATION SKETCH/COMMENTS                                                                   |  | 33. WITNESSED BY                              |  | 34. SCALE                                                                  |  |                              |  |
| 35. LOCATION SKETCH/COMMENTS                                                                   |  | 36. WITNESSED BY                              |  | 37. SCALE                                                                  |  |                              |  |
| 38. LOCATION SKETCH/COMMENTS                                                                   |  | 39. WITNESSED BY                              |  | 40. SCALE                                                                  |  |                              |  |
| 41. LOCATION SKETCH/COMMENTS                                                                   |  | 42. WITNESSED BY                              |  | 43. SCALE                                                                  |  |                              |  |
| 44. LOCATION SKETCH/COMMENTS                                                                   |  | 45. WITNESSED BY                              |  | 46. SCALE                                                                  |  |                              |  |
| 47. LOCATION SKETCH/COMMENTS                                                                   |  | 48. WITNESSED BY                              |  | 49. SCALE                                                                  |  |                              |  |
| 50. LOCATION SKETCH/COMMENTS                                                                   |  | 51. WITNESSED BY                              |  | 52. SCALE                                                                  |  |                              |  |
| 53. LOCATION SKETCH/COMMENTS                                                                   |  | 54. WITNESSED BY                              |  | 55. SCALE                                                                  |  |                              |  |
| 56. LOCATION SKETCH/COMMENTS                                                                   |  | 57. WITNESSED BY                              |  | 58. SCALE                                                                  |  |                              |  |
| 59. LOCATION SKETCH/COMMENTS                                                                   |  | 60. WITNESSED BY                              |  | 61. SCALE                                                                  |  |                              |  |
| 62. LOCATION SKETCH/COMMENTS                                                                   |  | 63. WITNESSED BY                              |  | 64. SCALE                                                                  |  |                              |  |
| 65. LOCATION SKETCH/COMMENTS                                                                   |  | 66. WITNESSED BY                              |  | 67. SCALE                                                                  |  |                              |  |
| 68. LOCATION SKETCH/COMMENTS                                                                   |  | 69. WITNESSED BY                              |  | 70. SCALE                                                                  |  |                              |  |
| 69. PROJECT<br><u>FUSRAP/SLDS</u>                                                              |  | 70. HOLE NO.<br><u>SLD 75723</u>              |  | 71. SCALE                                                                  |  |                              |  |



RADIOLOGICAL SURVEY FORM

Sample ID SLD 75720

Date Sample was collected: 3-3-03

Date Sample was analyzed: 3-4-03

Instrument #1 Background 6440 cpm

Instrument #2 Background 4428 cpm

Count rate of Empty Pan: Beta 78 cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 0-6                      | 7100                                                      | 660                               | 5267                                                  | 839                           | 277                                | 199      |
| 6-12                     | 8000                                                      | 1560                              | 5104                                                  | 676                           | 296                                | 218      |
| 12-18                    | 7400                                                      | 960                               | 4846                                                  | 418                           | 177                                | 99       |
| 18-24                    | 7400                                                      | 960                               | 4746                                                  | 318                           | 186                                | 108      |
| 24-30                    | 7200                                                      | 760                               | 4880                                                  | 452                           | 134                                | 56       |
| 30-36                    | 7400                                                      | 960                               | 4939                                                  | 511                           | 157                                | 79       |
| 36-42                    | 7300                                                      | 860                               | 4624                                                  | 196                           | 194                                | 116      |
| 42-48                    | 7300                                                      | 860                               | 4610                                                  | 182                           | 150                                | 72       |
| 48-54                    |                                                           |                                   |                                                       |                               |                                    |          |
| 54-60                    |                                                           |                                   |                                                       |                               |                                    |          |
| 60-66                    |                                                           |                                   |                                                       |                               |                                    |          |
| 66-72                    |                                                           |                                   |                                                       |                               |                                    |          |

SLD 75720

SLD 75721

SLD 75720.  
archive

SLD 75722

1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                            |                            |              |                           |         | HOLE NO. 75720              |         |
|----------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------|--------------|---------------------------|---------|-----------------------------|---------|
| PROJECT FUSRAP / SLDS                  |                                                                                                            | INSTRUMENT Phillip Statler |              | DATE 2-2-2                |         | SHEET 2                     |         |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                                                   | RECOVERY (ft)              | RECOVERY (%) | REMARKS                   | REMARKS | REMARKS                     | REMARKS |
| 1.0                                    | Silty fine sand w/ few med. gravel, loose poorly graded, dk. brn. to blk., dry, trace cinders, trace coal. | 7100<br>0.0                | 2.0          | 0.0-0.3<br>3-3-03<br>1320 | N/A     | SLD 75720<br>3-3-03<br>1320 |         |
| 2.0                                    | flow clay                                                                                                  | 8000<br>0.0                | 2.0          | 0.5-1.0<br>1325           | N/A     | SLD 75721<br>1325           |         |
| 3.0                                    |                                                                                                            | 7400<br>0.0                |              | 1.0-1.5<br>1330           | N/A     |                             |         |
| 4.0                                    |                                                                                                            | 7400<br>0.0                |              | 1.5-2.0<br>1335           | N/A     | SLD 75722<br>1335           |         |
| 5.0                                    | Silty clay, med. stiff, med. plast., dk. brn, wet, few med. gravel                                         | 7200<br>0.0                | 2.0          | 2.0-2.5<br>1340           | N/A     |                             |         |
| 6.0                                    | clay turning H. gry.                                                                                       | 7400<br>0.0                | 2.0          | 2.5-3.0<br>1345           | N/A     |                             |         |
| 7.0                                    |                                                                                                            | 7300<br>0.0                |              | 3.0-3.5<br>1355           | N/A     | SLD 75723<br>1355 (75722)   |         |
| 8.0                                    |                                                                                                            | 7300<br>0.0                |              | 3.5-4.0<br>1400           | N/A     |                             |         |
| 9.0                                    | TD: 4.0' BGS<br>3-3-03<br>1400                                                                             |                            |              |                           |         |                             |         |
| 10.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 11.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 12.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 13.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 14.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 15.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 16.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 17.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 18.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 19.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 20.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 21.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 22.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 23.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 24.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 25.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 26.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 27.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 28.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 29.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 30.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 31.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 32.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 33.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 34.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 35.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 36.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 37.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 38.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 39.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 40.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 41.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 42.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 43.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 44.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 45.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 46.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 47.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 48.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 49.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 50.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 51.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 52.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 53.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 54.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 55.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 56.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 57.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 58.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 59.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 60.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 61.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 62.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 63.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 64.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 65.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 66.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 67.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 68.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 69.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 70.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 71.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 72.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 73.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 74.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 75.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 76.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 77.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 78.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 79.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 80.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 81.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 82.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 83.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 84.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 85.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 86.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 87.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 88.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 89.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 90.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 91.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 92.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 93.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 94.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 95.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 96.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 97.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 98.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 99.0                                   |                                                                                                            |                            |              |                           |         |                             |         |
| 100.0                                  |                                                                                                            |                            |              |                           |         |                             |         |

| HTRW DRILLING LOG                                                                                                                                                                                                                   |  |  |  | DISTRICT <u>St. Louis</u>                                               |  | HOLE NUMBER <u>SLD 75720</u> |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-------------------------------------------------------------------------|--|------------------------------|--|
| 1. COMPANY NAME <u>Shaw E &amp; I</u>                                                                                                                                                                                               |  |  |  | 2. DRILLING SUBCONTRACTOR <u>MES, Inc. AS</u>                           |  | SHEET <u>1</u> OF <u>2</u>   |  |
| 3. PROJECT <u>FUSRAP/SLDS</u>                                                                                                                                                                                                       |  |  |  | 4. LOCATION <u>PSC Metals North Tract V.P.</u>                          |  |                              |  |
| 5. NAME OF DRILLER <u>Chris Anthony PS</u>                                                                                                                                                                                          |  |  |  | 6. MANUFACTURER'S DESIGNATION OF DRILL <u>Diedrich D-120 AS</u>         |  |                              |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <u>Diedrich D-120</u><br><u>using HSA and</u><br><u>2 1/2" split spoon.</u><br><u>Hand auger</u><br><u>PEP 2/3/02 NAI</u><br><u>to 100/160 Cal. Date: 4-11-02 Bkg: 6/8/00</u> |  |  |  | 8. HOLE LOCATION <u>See location sketch</u>                             |  |                              |  |
| 12. OVERBURDEN THICKNESS <u>N/A</u>                                                                                                                                                                                                 |  |  |  | 9. SURFACE ELEVATION <u>N/A</u>                                         |  |                              |  |
| 13. DEPTH DRILLED INTO ROCK <u>N/A</u>                                                                                                                                                                                              |  |  |  | 10. DATE STARTED <u>3-3-03</u>                                          |  |                              |  |
| 14. TOTAL DEPTH OF HOLE <u>4.0 FT BGS</u>                                                                                                                                                                                           |  |  |  | 11. DATE COMPLETED <u>3-3-03</u>                                        |  |                              |  |
| 15. GEOTECHNICAL SAMPLES                                                                                                                                                                                                            |  |  |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <u>N/A</u> |  |                              |  |
| 18. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                   |  |  |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <u>N/A</u>                 |  |                              |  |
| 20. DISPOSITION OF HOLE                                                                                                                                                                                                             |  |  |  | 19. TOTAL NUMBER OF CORE BOXES                                          |  |                              |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                             |  |  |  | 21. TOTAL CORE RECOVERY                                                 |  |                              |  |
| 23. SIGNATURE OF INSPECTOR <u>Phillip J. Stoller</u>                                                                                                                                                                                |  |  |  | 24. LOCATION SKETCH/COMMENTS                                            |  |                              |  |
| 25. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 26. LOCATION SKETCH/COMMENTS                                            |  |                              |  |
| 27. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 28. LOCATION SKETCH/COMMENTS                                            |  |                              |  |
| 29. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 29. SIGNATURE OF DRILLER                                                |  |                              |  |
| 30. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 30. SIGNATURE OF DRILLER                                                |  |                              |  |
| 31. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 31. SIGNATURE OF DRILLER                                                |  |                              |  |
| 32. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 32. SIGNATURE OF DRILLER                                                |  |                              |  |
| 33. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 33. SIGNATURE OF DRILLER                                                |  |                              |  |
| 34. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 34. SIGNATURE OF DRILLER                                                |  |                              |  |
| 35. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 35. SIGNATURE OF DRILLER                                                |  |                              |  |
| 36. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 36. SIGNATURE OF DRILLER                                                |  |                              |  |
| 37. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 37. SIGNATURE OF DRILLER                                                |  |                              |  |
| 38. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 38. SIGNATURE OF DRILLER                                                |  |                              |  |
| 39. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 39. SIGNATURE OF DRILLER                                                |  |                              |  |
| 40. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 40. SIGNATURE OF DRILLER                                                |  |                              |  |
| 41. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 41. SIGNATURE OF DRILLER                                                |  |                              |  |
| 42. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 42. SIGNATURE OF DRILLER                                                |  |                              |  |
| 43. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 43. SIGNATURE OF DRILLER                                                |  |                              |  |
| 44. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 44. SIGNATURE OF DRILLER                                                |  |                              |  |
| 45. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 45. SIGNATURE OF DRILLER                                                |  |                              |  |
| 46. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 46. SIGNATURE OF DRILLER                                                |  |                              |  |
| 47. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 47. SIGNATURE OF DRILLER                                                |  |                              |  |
| 48. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 48. SIGNATURE OF DRILLER                                                |  |                              |  |
| 49. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 49. SIGNATURE OF DRILLER                                                |  |                              |  |
| 50. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 50. SIGNATURE OF DRILLER                                                |  |                              |  |
| 51. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 51. SIGNATURE OF DRILLER                                                |  |                              |  |
| 52. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 52. SIGNATURE OF DRILLER                                                |  |                              |  |
| 53. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 53. SIGNATURE OF DRILLER                                                |  |                              |  |
| 54. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 54. SIGNATURE OF DRILLER                                                |  |                              |  |
| 55. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 55. SIGNATURE OF DRILLER                                                |  |                              |  |
| 56. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 56. SIGNATURE OF DRILLER                                                |  |                              |  |
| 57. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 57. SIGNATURE OF DRILLER                                                |  |                              |  |
| 58. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 58. SIGNATURE OF DRILLER                                                |  |                              |  |
| 59. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 59. SIGNATURE OF DRILLER                                                |  |                              |  |
| 60. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 60. SIGNATURE OF DRILLER                                                |  |                              |  |
| 61. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 61. SIGNATURE OF DRILLER                                                |  |                              |  |
| 62. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 62. SIGNATURE OF DRILLER                                                |  |                              |  |
| 63. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 63. SIGNATURE OF DRILLER                                                |  |                              |  |
| 64. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 64. SIGNATURE OF DRILLER                                                |  |                              |  |
| 65. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 65. SIGNATURE OF DRILLER                                                |  |                              |  |
| 66. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 66. SIGNATURE OF DRILLER                                                |  |                              |  |
| 67. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 67. SIGNATURE OF DRILLER                                                |  |                              |  |
| 68. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 68. SIGNATURE OF DRILLER                                                |  |                              |  |
| 69. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 69. SIGNATURE OF DRILLER                                                |  |                              |  |
| 70. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 70. SIGNATURE OF DRILLER                                                |  |                              |  |
| 71. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 71. SIGNATURE OF DRILLER                                                |  |                              |  |
| 72. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 72. SIGNATURE OF DRILLER                                                |  |                              |  |
| 73. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 73. SIGNATURE OF DRILLER                                                |  |                              |  |
| 74. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 74. SIGNATURE OF DRILLER                                                |  |                              |  |
| 75. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 75. SIGNATURE OF DRILLER                                                |  |                              |  |
| 76. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 76. SIGNATURE OF DRILLER                                                |  |                              |  |
| 77. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 77. SIGNATURE OF DRILLER                                                |  |                              |  |
| 78. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 78. SIGNATURE OF DRILLER                                                |  |                              |  |
| 79. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 79. SIGNATURE OF DRILLER                                                |  |                              |  |
| 80. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 80. SIGNATURE OF DRILLER                                                |  |                              |  |
| 81. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 81. SIGNATURE OF DRILLER                                                |  |                              |  |
| 82. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 82. SIGNATURE OF DRILLER                                                |  |                              |  |
| 83. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 83. SIGNATURE OF DRILLER                                                |  |                              |  |
| 84. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 84. SIGNATURE OF DRILLER                                                |  |                              |  |
| 85. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 85. SIGNATURE OF DRILLER                                                |  |                              |  |
| 86. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 86. SIGNATURE OF DRILLER                                                |  |                              |  |
| 87. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 87. SIGNATURE OF DRILLER                                                |  |                              |  |
| 88. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 88. SIGNATURE OF DRILLER                                                |  |                              |  |
| 89. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 89. SIGNATURE OF DRILLER                                                |  |                              |  |
| 90. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 90. SIGNATURE OF DRILLER                                                |  |                              |  |
| 91. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 91. SIGNATURE OF DRILLER                                                |  |                              |  |
| 92. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 92. SIGNATURE OF DRILLER                                                |  |                              |  |
| 93. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 93. SIGNATURE OF DRILLER                                                |  |                              |  |
| 94. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 94. SIGNATURE OF DRILLER                                                |  |                              |  |
| 95. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 95. SIGNATURE OF DRILLER                                                |  |                              |  |
| 96. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 96. SIGNATURE OF DRILLER                                                |  |                              |  |
| 97. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 97. SIGNATURE OF DRILLER                                                |  |                              |  |
| 98. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 98. SIGNATURE OF DRILLER                                                |  |                              |  |
| 99. SIGNATURE OF DRILLER                                                                                                                                                                                                            |  |  |  | 99. SIGNATURE OF DRILLER                                                |  |                              |  |
| 100. SIGNATURE OF DRILLER                                                                                                                                                                                                           |  |  |  | 100. SIGNATURE OF DRILLER                                               |  |                              |  |

RADIOLOGICAL SURVEY FORM

Sample ID SLD 75716

Date Sample was collected: 3-3-03

Date Sample was analyzed: 3-3-03

Instrument #1 Background 7174

Instrument #2 Background 4589 cpm

Count rate of Empty Pan: Beta 77 cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 0-6                      | 8100                                                      | 926                               | 5117                                                  | 528                           | 162                                | 85       |
| 6-12                     | 7800                                                      | 626                               | 5228                                                  | 639                           | 166                                | 89       |
| 12-18                    | 8000                                                      | 826                               | 5099                                                  | 510                           | 152                                | 75       |
| 18-24                    | 7600                                                      | 426                               | 5165                                                  | 576                           | 141                                | 64       |
| 24-30                    | 8300                                                      | 1126                              | 5180                                                  | 591                           | 153                                | 76       |
| 30-36                    | 7500                                                      | 326                               | 5229                                                  | 640                           | 166                                | 89       |
| 36-42                    | 7200                                                      | 26                                | 4836                                                  | 247                           | 140                                | 63       |
| 42-48                    | 8200                                                      | 1026                              | 5191                                                  | 602                           | 129                                | 52       |
| 48-54                    |                                                           |                                   |                                                       |                               |                                    |          |
| 54-60                    |                                                           |                                   | N                                                     | A                             |                                    |          |
| 60-66                    |                                                           |                                   |                                                       |                               |                                    |          |
| 66-72                    |                                                           |                                   |                                                       |                               |                                    |          |

SLD 75716

SLD 75717

SLD 75716  
archive

SLD 75718

1 Nov 98

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                            |                              |         |              |           | HOLE NO. 75 716 |               |
|----------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------|---------|--------------|-----------|-----------------|---------------|
| PROJECT FUSRAP / SLDs                  |                                                                                                            | INSPECTOR Phil Vito S. Hoyer |         | SHEET 2 of 5 |           | DATE 7/17/94    |               |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                                                   | RECOVERY                     | REMARKS | TEST NO.     | TEST DATE | TEST RESULT     | TEST COMMENTS |
| 0.0                                    | Silty fine sand w/ few med. gravel, loose, poor gradation, dk. brn to blk, dry, few cinders, few slag wet. | 81.00                        | 0.0     | 2.0          | 2.0       | 2.0             | 2.0           |
| 1.0                                    | Same clay                                                                                                  | 78.00                        | 0.0     | 2.0          | 2.0       | 2.0             | 2.0           |
| 2.0                                    | Same clay                                                                                                  | 80.00                        | 0.0     | 2.0          | 2.0       | 2.0             | 2.0           |
| 3.0                                    | Silty clay, med. stiff, med. plastic, dk. brn, moist, few med. gravel.                                     | 76.00                        | 0.0     | 2.0          | 2.0       | 2.0             | 2.0           |
| 4.0                                    |                                                                                                            | 83.00                        | 0.0     | 2.0          | 2.0       | 2.0             | 2.0           |
| 5.0                                    |                                                                                                            | 75.00                        | 0.0     | 2.0          | 2.0       | 2.0             | 2.0           |
| 6.0                                    |                                                                                                            | 77.00                        | 0.0     | 2.0          | 2.0       | 2.0             | 2.0           |
| 7.0                                    |                                                                                                            | 82.00                        | 0.0     | 2.0          | 2.0       | 2.0             | 2.0           |
| 8.0                                    |                                                                                                            |                              |         |              |           |                 |               |
| 9.0                                    |                                                                                                            |                              |         |              |           |                 |               |
| 10.0                                   |                                                                                                            |                              |         |              |           |                 |               |
| TD: 40' BGS                            |                                                                                                            |                              |         | Back ground: |           |                 |               |
| 3-3-03                                 |                                                                                                            |                              |         | Nat: 7/17/94 |           |                 |               |
| 1120                                   |                                                                                                            |                              |         | PTD: 0.0     |           |                 |               |
|                                        |                                                                                                            |                              |         | Backfilled   |           |                 |               |
|                                        |                                                                                                            |                              |         | boring w/    |           |                 |               |
|                                        |                                                                                                            |                              |         | 2.0 bags     |           |                 |               |
|                                        |                                                                                                            |                              |         | of benton-   |           |                 |               |
|                                        |                                                                                                            |                              |         | ite chips.   |           |                 |               |
|                                        |                                                                                                            |                              |         | * Samples    |           |                 |               |
|                                        |                                                                                                            |                              |         | will be      |           |                 |               |
|                                        |                                                                                                            |                              |         | drilled      |           |                 |               |
|                                        |                                                                                                            |                              |         | using gas    |           |                 |               |
|                                        |                                                                                                            |                              |         | proportional |           |                 |               |
|                                        |                                                                                                            |                              |         | meter. (See  |           |                 |               |
|                                        |                                                                                                            |                              |         | attached     |           |                 |               |
|                                        |                                                                                                            |                              |         | sheet).      |           |                 |               |
| PROJECT FUSRAP / SLDs                  |                                                                                                            |                              |         |              |           | HOLE NO. 75 716 |               |

| HTRW DRILLING LOG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |            |  | DISTRICT <u>St. Louis</u>                                                  |  | HOLE NUMBER<br><u>SLD 75716</u> |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------|--|----------------------------------------------------------------------------|--|---------------------------------|--|
| 1. COMPANY NAME<br><u>Shaw E &amp; I</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |  | 2. DRILLING SUBCONTRACTOR<br><u>M.E.S. Inc. PS</u>                         |  | SHEET <u>1</u> OF <u>2</u>      |  |
| 3. PROJECT<br><u>FUSRAP/SLDS PS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |            |  | 4. LOCATION<br><u>PSC Metals North Tract V.P.</u>                          |  |                                 |  |
| 5. NAME OF DRILLER<br><u>Chris Anthony PS.</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>Diedrich D-120 P.S.</u>       |  |                                 |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>Diedrich D-120 P.S.</u><br><u>using HSA and</u><br><u>2" x 2" split spoon.</u><br><u>Hand auger</u><br><u>PID 273/13 NAT. LUD 176A 40</u><br><u>to 100/100 Cal. Date: 4-11-03 Bkg: 7/174</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |            |  | 8. HOLE LOCATION<br><u>See location sketch</u>                             |  |                                 |  |
| 12. OVERBURDEN THICKNESS<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |            |  | 16. DEPTH GROUNDWATER ENCOUNTERED<br><u>N/A</u>                            |  |                                 |  |
| 13. DEPTH DRILLED INTO ROCK<br><u>N/A</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |            |  | 18. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>N/A</u> |  |                                 |  |
| 14. TOTAL DEPTH OF HOLE<br><u>4.0 FT BGS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |            |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>N/A</u>                 |  |                                 |  |
| 18. GEOTECHNICAL SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | DISTURBED  |  | UNDISTURBED                                                                |  | 19. TOTAL NUMBER OF CORE BOXES  |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | YES        |  | METALS                                                                     |  | OTHER (SPECIFY)                 |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | BACKFILLED |  | MONITORING WELL                                                            |  | 23. SIGNATURE OF INSPECTOR      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | Yes        |  | N/A                                                                        |  | N/A                             |  |
| <div style="display: flex; justify-content: space-between;"> <div> <p>LOCATION SKETCH/COMMENTS</p> <p>Witnessed by: <u>Phillip Statler</u></p> <p>SCALE: <u>Not to Scale</u></p> </div> <div style="border: 1px solid black; padding: 5px; font-size: small;"> <p>Terms used to describe %</p> <p>Trace - &lt; 5 %</p> <p>Few - 5 - 10 %</p> <p>Little - 15 - 25 %</p> <p>Some - 20 - 35 %</p> <p>Mostly - 50 - 100 %</p> </div> </div> <div style="height: 200px; border: 1px solid black; position: relative; margin-top: 10px;"> <div style="position: absolute; top: 10px; left: 10px;"> <p>N</p> <p>SLD 75716</p> <p>SLD 75712</p> <p>SLD 75714</p> <p>SLD 75715</p> <p>SLD 75716</p> <p>SLD 75717</p> <p>SLD 75718</p> <p>SLD 75719</p> <p>SLD 75720</p> <p>SLD 75721</p> <p>SLD 75722</p> <p>SLD 75723</p> <p>SLD 75724</p> <p>SLD 75725</p> <p>SLD 75726</p> <p>SLD 75727</p> <p>SLD 75728</p> <p>SLD 75729</p> <p>SLD 75730</p> <p>SLD 75731</p> <p>SLD 75732</p> <p>SLD 75733</p> <p>SLD 75734</p> <p>SLD 75735</p> <p>SLD 75736</p> <p>SLD 75737</p> <p>SLD 75738</p> <p>SLD 75739</p> <p>SLD 75740</p> <p>SLD 75741</p> <p>SLD 75742</p> <p>SLD 75743</p> <p>SLD 75744</p> <p>SLD 75745</p> <p>SLD 75746</p> <p>SLD 75747</p> <p>SLD 75748</p> <p>SLD 75749</p> <p>SLD 75750</p> <p>SLD 75751</p> <p>SLD 75752</p> <p>SLD 75753</p> <p>SLD 75754</p> <p>SLD 75755</p> <p>SLD 75756</p> <p>SLD 75757</p> <p>SLD 75758</p> <p>SLD 75759</p> <p>SLD 75760</p> <p>SLD 75761</p> <p>SLD 75762</p> <p>SLD 75763</p> <p>SLD 75764</p> <p>SLD 75765</p> <p>SLD 75766</p> <p>SLD 75767</p> <p>SLD 75768</p> <p>SLD 75769</p> <p>SLD 75770</p> <p>SLD 75771</p> <p>SLD 75772</p> <p>SLD 75773</p> <p>SLD 75774</p> <p>SLD 75775</p> <p>SLD 75776</p> <p>SLD 75777</p> <p>SLD 75778</p> <p>SLD 75779</p> <p>SLD 75780</p> <p>SLD 75781</p> <p>SLD 75782</p> <p>SLD 75783</p> <p>SLD 75784</p> <p>SLD 75785</p> <p>SLD 75786</p> <p>SLD 75787</p> <p>SLD 75788</p> <p>SLD 75789</p> <p>SLD 75790</p> <p>SLD 75791</p> <p>SLD 75792</p> <p>SLD 75793</p> <p>SLD 75794</p> <p>SLD 75795</p> <p>SLD 75796</p> <p>SLD 75797</p> <p>SLD 75798</p> <p>SLD 75799</p> <p>SLD 75800</p> </div> </div> |  |            |  |                                                                            |  |                                 |  |
| PROJECT <u>FUSRAP/SLDS</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |            |  | HOLE NO. <u>SLD 75716</u>                                                  |  |                                 |  |

RADIOLOGICAL SURVEY FORM

Sample ID SLD 75712

Date Sample was collected: 3-3-03

Date Sample was analyzed: 3-3-03

Instrument #1 Background 7174 cpm

Instrument #2 Background 4677 cpm

Count rate of Empty Pan: Beta 93 cpm

| Sample Depth<br>(inches) | Gross Field Scan<br>of Spoon<br>(Instrument #1) in<br>cpm | Net Field Scan<br>of Spoon in cpm | Gross Activity<br>in Bag<br>(Instrument #2)<br>in cpm | Net Activity in<br>Bag in cpm | Gas Proportional Count rate in cpm |          |
|--------------------------|-----------------------------------------------------------|-----------------------------------|-------------------------------------------------------|-------------------------------|------------------------------------|----------|
|                          |                                                           |                                   |                                                       |                               | Gross Beta                         | Net Beta |
| 1000<br>0-6              | 7200                                                      | 26                                | 6130                                                  | 1453                          | 171                                | 78       |
| 1010<br>6-12             | 7200                                                      | 26                                | 5336                                                  | 659                           | 152                                | 59       |
| 1013<br>12-18            | 7900                                                      | 726                               | 5013                                                  | 336                           | 116                                | 23       |
| 1020<br>18-24            | 7600                                                      | 426                               | 5204                                                  | 527                           | 128                                | 35       |
| 1030<br>24-30            | 7400                                                      | 226                               | 5154                                                  | 477                           | 140                                | 47       |
| 30-36                    |                                                           |                                   |                                                       |                               |                                    |          |
| 36-42                    |                                                           |                                   |                                                       |                               |                                    |          |
| 42-48                    |                                                           |                                   | N                                                     | A                             |                                    |          |
| 48-54                    |                                                           |                                   |                                                       |                               |                                    |          |
| 54-60                    |                                                           |                                   |                                                       |                               |                                    |          |
| 60-66                    |                                                           |                                   |                                                       |                               |                                    |          |
| 66-72                    |                                                           |                                   |                                                       |                               |                                    |          |

SLD 75712

SLD 75713

~~SLD 75714~~

SLD 75714

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                                                                            |                   |              |                   |             |                                                                            |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------|-------------------|-------------|----------------------------------------------------------------------------|
| PROJECT                                |                                                                                                                                                            | INSPECTOR         |              | HOLE NO.          |             |                                                                            |
| FUSRAP / SLDs                          |                                                                                                                                                            | Phillip Statler   |              | 2 75712           |             |                                                                            |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                                                                                                   | WATER CONTENT (%) | RECOVERY (%) | TEST NO.          | TEST RESULT | REMARKS                                                                    |
| 0.0                                    | Silty fine sand w/ few med. gravel, 10% poor, gray, dk. brown to blk, dry, few cinders, few slag, trace brick frags, trace moist, few clay, trace cobbles. | 7300 0.0          | 2.0          | 00-05 3-3-03 1000 | N/A         | SLD 75712 1000                                                             |
| 1.0                                    |                                                                                                                                                            | 7300 0.0          | 2.0          | 05-10 1010        | N/A         | SLD 75713 1010                                                             |
| 2.0                                    | Wet                                                                                                                                                        | 7300 0.0          | 0.5          | 10-15 1013        | N/A         | SLD 75714 1030                                                             |
| 3.0                                    | TD: 2.5' BGS 3-3-03 1030                                                                                                                                   | 7300 0.0          | 0.5          | 15-20 1020        | N/A         | (Possible cone, footer)                                                    |
| 4.0                                    |                                                                                                                                                            | 7400 0.0          |              | 20-25 1030        | N/A         | Hit obstruction at 2.5'                                                    |
| 5.0                                    |                                                                                                                                                            |                   |              |                   |             | Background: NAI: 7,174                                                     |
| 6.0                                    |                                                                                                                                                            |                   |              |                   |             | PID: 0.0                                                                   |
| 7.0                                    |                                                                                                                                                            |                   |              |                   |             | Backfilled boring w/ 1.0 bags of bentonite chips.                          |
| 8.0                                    |                                                                                                                                                            |                   |              |                   |             | Samples will be counted using gas proportional meter (See Attached sheet). |
| 9.0                                    |                                                                                                                                                            |                   |              |                   |             |                                                                            |
| 10.0                                   |                                                                                                                                                            |                   |              |                   |             |                                                                            |



| <b>HTRW DRILLING LOG</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                            |  | DISTRICT <b>St. Louis</b>                                                  |  | HOLE NUMBER <b>SLD 75712</b>      |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------|--|----------------------------------------------------------------------------|--|-----------------------------------|--|
| 1. COMPANY NAME<br><b>Shaw E &amp; I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                            |  | 2. DRILLING SUBCONTRACTOR<br><b>MES, Inc. PS.</b>                          |  | SHEET <b>1</b> OF <b>5</b>        |  |
| 3. PROJECT<br><b>FUSRAP/SLDS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                            |  | 4. LOCATION<br><b>PSC Metals North Tract V.P.</b>                          |  |                                   |  |
| 5. NAME OF DRILLER<br><b>Chris Anthony P.S.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                            |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><b>Discotech D-120-PS</b>        |  |                                   |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><b>Discotech P-120<br/>using HSA and<br/>PC 3" HSA Split Screen<br/>Hand auger</b>                                                                                                                                                                                                                                                                                                                                                      |  |                            |  | 8. HOLE LOCATION<br><b>See location sketch</b>                             |  |                                   |  |
| 9. SURFACE ELEVATION<br><b>N/A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                            |  | 10. DATE STARTED<br><b>3-3-03</b>                                          |  |                                   |  |
| 11. DATE COMPLETED<br><b>3-3-03</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                            |  | 12. OVERBURDEN THICKNESS<br><b>N/A</b>                                     |  |                                   |  |
| 13. DEPTH DRILLED INTO ROCK<br><b>N/A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                            |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br><b>N/A</b>                            |  |                                   |  |
| 14. TOTAL DEPTH OF HOLE<br><b>2.5 FT BGS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                            |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><b>N/A</b> |  |                                   |  |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><b>N/A</b>                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                            |  | 18. GEOTECHNICAL SAMPLES                                                   |  |                                   |  |
| DISTURBED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | UNDISTURBED                |  | 19. TOTAL NUMBER OF CORE BOXES                                             |  | 20. SAMPLES FOR CHEMICAL ANALYSIS |  |
| ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | METALS                     |  | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| OTHER (SPECIFY)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | OTHER (SPECIFY)            |  | OTHER (SPECIFY)                                                            |  | 21. TOTAL CORE RECOVERED          |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | 23. SIGNATURE OF INSPECTOR |  | 24. SIGNATURE OF WITNESS                                                   |  | 25. SIGNATURE OF DRILLER          |  |
| ABANDONED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | MONITORING WELL            |  | OTHER (SPECIFY)                                                            |  | OTHER (SPECIFY)                   |  |
| Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | N/A                        |  | N/A                                                                        |  | N/A                               |  |
| <b>LOCATION SKETCH/COMMENTS</b> Witnessed by: <b>Phillip Statter</b> SCALE: Not to Scale                                                                                                                                                                                                                                                                                                                                                                                                         |  |                            |  |                                                                            |  |                                   |  |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p><b>Tract 1</b><br/><b>(Southern Bldg)</b></p> <p>• SLD 72160</p> <p>• SLD 75712 (10K)</p> <p>• SLD 72161</p> <p>• SLD 72165</p> <p>Asphalt</p> </div> <div style="width: 35%; border: 1px solid black; padding: 5px;"> <p><b>Terms used to describe %</b></p> <p>Trace - &lt; 5 %</p> <p>Few - 5 - 10 %</p> <p>Little - 15 - 25 %</p> <p>Some - 20 - 35 %</p> <p>Mostly - 50 - 100 %</p> </div> </div> |  |                            |  |                                                                            |  |                                   |  |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p><b>PROJECT</b> <b>FUSRAP/SLDS</b></p> </div> <div style="width: 35%;"> <p><b>HOLE NO.</b> <b>SLD 75712</b></p> </div> </div>                                                                                                                                                                                                                                                                           |  |                            |  |                                                                            |  |                                   |  |

| HTRW DRILLING LOG                                                                                                    |  |  | DISTRICT ST. LOUIS                                               |  | HOLE NUMBER<br>SLD 67285 |                     |
|----------------------------------------------------------------------------------------------------------------------|--|--|------------------------------------------------------------------|--|--------------------------|---------------------|
| 1. COMPANY NAME SHAW ENVIRONMENTAL                                                                                   |  |  | 2. DRILLING SUBCONTRACTOR SHAW                                   |  |                          | SHEET 1 OF 2 SHEETS |
| 3. PROJECT FUSRAP/SLDS                                                                                               |  |  | 4. LOCATION PSC Metals (NOT 2)                                   |  |                          |                     |
| 5. NAME OF DRILLER DAW 60/H6                                                                                         |  |  | 6. MANUFACTURER'S DESIGNATION OF DRILL CME 75                    |  |                          |                     |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT CME 75 using "HSA and 1/2" 3 split spoon holes otherwise noted |  |  | 8. HOLE LOCATION See location sketch                             |  |                          |                     |
| PTD EDIT 327 NAE 149947 LUD cal. date: BKG:                                                                          |  |  | 9. SURFACE ELEVATION 423.4                                       |  | 10. DATE STARTED 5/19/05 |                     |
| 11. DATE COMPLETED 5/19/05                                                                                           |  |  | 12. OVERBURDEN THICKNESS N/A                                     |  |                          |                     |
| 13. DEPTH DRILLED INTO ROCK N/A                                                                                      |  |  | 15. DEPTH GROUNDWATER ENCOUNTERED NA                             |  |                          |                     |
| 14. TOTAL DEPTH OF HOLE 8.0                                                                                          |  |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED N/A |  |                          |                     |
| 18. GEOTECHNICAL SAMPLES                                                                                             |  |  | 19. TOTAL NUMBER OF CORE BOXES N/A                               |  |                          |                     |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                    |  |  | 21. TOTAL CORE RECOVERY 0%                                       |  |                          |                     |
| 22. DISPOSITION OF HOLE                                                                                              |  |  | 23. SIGNATURE OF INSPECTOR                                       |  |                          |                     |
| DISTURBED 0 UNDISTURBED 0                                                                                            |  |  | VOC 0 METALS 0 OTHER (SPECIFY) 0 RAD 0 OTHER (SPECIFY) 0         |  |                          |                     |
| BACKFILLED 0 MONITORING WELL 0 OTHER (SPECIFY) 0                                                                     |  |  | yes N/A N/A                                                      |  |                          |                     |

LOCATION SKETCH/COMMENTS Witnessed by: SCALE: Not to Scale

BREMEN

|                     |                    |
|---------------------|--------------------|
| PROJECT FUSRAP/SLDS | HOLE NO. SLD 67285 |
|---------------------|--------------------|

# PSC Metals (NTI)

SLD 87285  
SLD 87

| HTRW DRILLING LOG (CONTINUATION SHEET) |               |                                                                                   |               |              |               |                     | WELL NUMBER<br>SLD 87285                    |
|----------------------------------------|---------------|-----------------------------------------------------------------------------------|---------------|--------------|---------------|---------------------|---------------------------------------------|
| PROJECT                                | FUSRAP / SLDS |                                                                                   |               | INSPECTOR    | MCCARRIN      |                     | SHEET 2 of 2                                |
| DEPTH<br>(ft)                          | DEPTH<br>(m)  | DESCRIPTION OF MATERIALS                                                          | GROSS<br>(ft) | NET<br>(ft)  | WATER<br>(ft) | BLANK COUNT<br>(ft) | REMARKS                                     |
| GM                                     | 1             | Brown silty sand cement<br>deposits (fill) dry                                    | 7000<br>0     | 2.0          | SLD 87285     | 23                  | Hard sampling -<br>End sample req.          |
|                                        | 1             | White stone<br>fragments (fill) dry                                               | 7000<br>0     | 2.0          |               | 33                  |                                             |
|                                        | 2             |                                                                                   | 7200<br>0     |              | SLD 87296     | 20                  | Rad sample<br>req.                          |
|                                        | 2             | Stone rubble                                                                      | 7300<br>0     |              |               | 80                  | Hard drilling -                             |
|                                        | 3             | Dark grey silty clay<br>in tip<br>moist soft                                      | 7300<br>0     | 0.5 recovery |               | 33                  | Rocky rubble<br>& stone<br>deposits<br>base |
|                                        | 3             |                                                                                   |               |              |               | 5                   | Hard sampling -<br>Soil sampling            |
|                                        | 3             |                                                                                   |               |              |               | 5                   |                                             |
|                                        | 4             |                                                                                   |               |              |               | 8                   |                                             |
| ML                                     | 4             | Grey silt                                                                         | 7000<br>0     | 2.0          | SLD 87297     | 3                   | inside -                                    |
|                                        | 5             | Vel-tan (or mott)<br>silty clay (fill?)<br>bls and gravel bits<br>moist men stuff | 7000<br>0     | 2.0          |               | 5                   |                                             |
|                                        | 5             |                                                                                   | 7100<br>0     |              |               | 7                   |                                             |
|                                        | 6             |                                                                                   | 7500<br>0     |              |               | 8                   |                                             |
|                                        | 6             | Grey silty clay<br>moist<br>med hard                                              | 7000<br>0     | 2.0          | Archived      | 2                   |                                             |
|                                        | 7             |                                                                                   | 7000<br>0     | 2.0          | Archived      | 4                   |                                             |
| ML                                     | 7             | Brown & yellow<br>w/ rust mott                                                    | 7200<br>0     |              |               | 5                   |                                             |
| SP                                     | 7             | Sandy silt<br>Micro bio-bio/bacteria<br>moist                                     | 7400<br>0     |              | SLD 87298     | 8                   |                                             |
|                                        | 8             |                                                                                   |               |              |               |                     |                                             |
|                                        | 8             | 810 EOB                                                                           |               |              |               |                     |                                             |
|                                        | 9             | Boeing backfill<br>w/ bentonite                                                   |               |              |               |                     |                                             |
|                                        | 9             |                                                                                   |               |              |               |                     |                                             |
|                                        | 10            | red OK 6/7/05                                                                     |               |              |               |                     |                                             |

2:00  
2:20

2:35

3:00  
3:10

3:15  
3:20

3:30

3:45  
3:50

PROJECT FUSRAP / SLDS

WELL NO. SLD 87285

| HTRW DRILLING LOG                                                                                                                                                                                                                    |  |  | DISTRICT ST. LOUIS                                                  |  | HOLE NUMBER<br>SCD 87286 |                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|---------------------------------------------------------------------|--|--------------------------|------------------------|
| 1. COMPANY NAME<br>SHAW ENVIRONMENTAL                                                                                                                                                                                                |  |  | 2. DRILLING CONTRACTOR<br><i>Mr. McGovern SHAW</i>                  |  |                          | SHEET<br>1 OF 4 SHEETS |
| 3. PROJECT<br>FUSRAP/SLDS                                                                                                                                                                                                            |  |  | 4. LOCATION<br>PSC MEALS South land                                 |  |                          |                        |
| 5. NAME OF DRILLER<br>Dan Goto                                                                                                                                                                                                       |  |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br>CME 75                    |  |                          |                        |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><i>CME 75 using 4 1/2" HSA and 30' K' split spoon &amp; core</i>                                                                                                            |  |  | 8. HOLE LOCATION<br>See location sketch                             |  |                          |                        |
| 9. SURFACE ELEVATION<br>422.4                                                                                                                                                                                                        |  |  | 10. DATE STARTED<br>5/23/05                                         |  |                          |                        |
| 11. DATE COMPLETED<br>5/23/05                                                                                                                                                                                                        |  |  | 12. OVERBURDEN THICKNESS<br>N/A                                     |  |                          |                        |
| 13. DEPTH DRILLED INTO ROCK<br>N/A                                                                                                                                                                                                   |  |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br>12.5'                          |  |                          |                        |
| 14. TOTAL DEPTH OF HOLE<br>26'                                                                                                                                                                                                       |  |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br>N/A |  |                          |                        |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br>N/A                                                                                                                                                                                  |  |  | 18. GEOTECHNICAL SAMPLES                                            |  |                          |                        |
| 19. TOTAL NUMBER OF CORE BOXES<br>N/A                                                                                                                                                                                                |  |  | 20. SAMPLES FOR CHEMICAL ANALYSIS                                   |  |                          |                        |
| 21. TOTAL CORE RECOVERY<br>0%                                                                                                                                                                                                        |  |  | 22. DISPOSITION OF HOLE                                             |  |                          |                        |
| 23. SIGNATURE OF INSPECTOR<br><i>2-0 L L</i>                                                                                                                                                                                         |  |  | 24. LOCATION SKETCH/COMMENTS                                        |  |                          |                        |
| 25. WITNESSED BY:                                                                                                                                                                                                                    |  |  | 26. SCALE: Not to Scale                                             |  |                          |                        |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> </div> <div style="width: 35%;"> <p>Trace &lt;5%</p><p>Few 5-10%</p><p>Little 15-25%</p><p>Some 20-35%</p><p>Mostly 50-100%</p> </div> </div> |  |  |                                                                     |  |                          |                        |
| PROJECT<br>FUSRAP/SLDS                                                                                                                                                                                                               |  |  | HOLE NO.<br>SCD 87286                                               |  |                          |                        |

HTRW DRILLING LOG (CONTINUED) SHEET 2 OF 2

FUSRAP/SLDS

M. McCARRIN

204

| REV<br>TO | DESCRIPTION OF MATERIAL                                        | CRS  | FIELD<br>NO.        | WATER<br>CONT. | WATER<br>CONT. | WATER<br>CONT.                             |
|-----------|----------------------------------------------------------------|------|---------------------|----------------|----------------|--------------------------------------------|
| Fill      | White & Gray 9000 Bl                                           | 8100 | 2.0                 | SLP            | 12             |                                            |
|           | LINE STONE STONE FILL<br>Loose dry                             | 8400 | 2.0                 | 87206          | 10             |                                            |
| Fill      | Black<br>Cinder slag fill<br>Loose dry                         | 8200 |                     | SLD            | 10             |                                            |
|           |                                                                | 9000 |                     | 87206          | 12             |                                            |
| 3         | Black<br>Cinder slag fill<br>w/ black fragments                | 8100 | 2.0                 |                | 11             |                                            |
|           | Loose dry                                                      | 8400 | 2.0                 | Redwood        | 12             |                                            |
| 4         |                                                                | 8700 |                     |                | 12             |                                            |
|           |                                                                | 8700 |                     | SLD            | 13             |                                            |
| ML        | Black<br>Silt - sandy silt<br>Moist                            | 8400 | 2.0                 |                | 4              | (INSUR?)                                   |
|           |                                                                | 9000 | 2.0                 | SLD            | 6              |                                            |
| 6         |                                                                | 8800 |                     | 87308          | 6              |                                            |
|           |                                                                | 8500 |                     |                | 7              |                                            |
| GM        | Black<br>Silt - sandy silt<br>Moist                            | 8400 | 2.0                 | SLD            | 16             | Change to<br>2" SS sampler<br>for 6600 cut |
|           | White & Gray damp<br>granular rock sand                        | 8300 | 2.0                 | And. 10        | 27             |                                            |
| CL        | Brown & Gray w/ 1/2" -<br>1" pebbles & most Mott<br>silty clay | 8200 |                     |                | 11             |                                            |
|           | Weathered<br>Moist mud stuff                                   | 8200 |                     | And. 10        | 12             |                                            |
| 9         |                                                                | 8400 | 1.0                 | Not<br>sampled | 5              |                                            |
|           |                                                                | 7800 | 2.0                 |                | 9              |                                            |
| 10        |                                                                |      | MISSING<br>RECOVERY |                | 8              |                                            |
|           |                                                                |      |                     |                | 7              |                                            |

PROJECT: FUSRAP / 5L05

MOLE NO. 5-7 87 286

1.00

1.06

10

0.10

11

15

1. 1

65.1

2-53

5/23/05

| HTRW DRILLING LOG (CONTINUATION SHEET) |       |                                       |             |               |             |        | WELL NO.                        |
|----------------------------------------|-------|---------------------------------------|-------------|---------------|-------------|--------|---------------------------------|
| PROJECT                                |       |                                       | DRILLER     |               |             | DATE   |                                 |
| FUSRAP / SLDS                          |       |                                       | M. McCARRIN |               |             | 3.4    |                                 |
| DEPTH                                  | DEPTH | DESCRIPTION OF MATERIAL               | LOG         | LOG           | LOG         | LOG    | LOG                             |
| 10                                     | 11    | Green-brown silty clay moist w/2 silt | 8500<br>0   | 1.5<br>2.0    | Not sampled | 3<br>3 | 10 silty soils<br>211 SS sample |
| ML                                     | 12    | Gray-brown silty sandy silt wet soft  | 8200<br>0   | Missile Piece | Not sampled | 3      |                                 |
| CC                                     | 13    | Brown silty clay moist mod stiff      | 8300<br>0   | Missile Piece | Not sampled | R      | 2" SS sample                    |
| SM                                     | 14    | Gray-black silty silt                 | 8700<br>0   | 1.5<br>2.0    | Not sampled | 1      |                                 |
|                                        | 15    | Gray-brown silty sand wet             | 8300<br>0   |               |             | 1      |                                 |
|                                        | 16    | Gray sand                             | 8600<br>0   |               |             | 1      |                                 |
|                                        | 17    | Black-Dk. gray silty sand wet         | 8300<br>0   | 1.5<br>2.0    | Not sampled | 2      | 2" SS sample                    |
|                                        | 18    | Gray sand & silt                      | 8400<br>0   | 2.0           | Not sampled | 1      |                                 |
|                                        | 19    | Gray silty clay v. moist soft         | 8400<br>0   | 2.0           | Not sampled | 1      |                                 |
| CC                                     | 20    | Gray silty clay moist soft            | 8400<br>0   | 2.0           | Not sampled | 2      | 2" SS sample                    |
|                                        | 21    | Gray silty clay moist soft            | 7800<br>0   | 2.0           | Not sampled | R      | 2" SS sample                    |
|                                        | 22    | Gray silty clay moist soft            | 7900<br>0   | 2.0           | Not sampled | 1      |                                 |
|                                        | 23    | Gray silty clay moist soft            | 8100<br>0   |               |             | 2      |                                 |
|                                        | 24    | Gray silty clay moist soft            | 8300<br>0   |               |             | 1      |                                 |
| PROJECT FUSRAP / SLDS                  |       |                                       |             |               |             |        | WELL NO. 6LD 87286              |

5:00 break

5/23/05

| HTRW DRILLING LOG (CONTINUATION SHEET) |      |                                                            |              |         |         |         | LOG NO.                             |
|----------------------------------------|------|------------------------------------------------------------|--------------|---------|---------|---------|-------------------------------------|
| PROJECT                                |      |                                                            | DRILLER      |         |         | DATE    | LOG NO.                             |
| FUSRAP / SLOS                          |      |                                                            | M. McCrackin |         |         | 4/24/05 | SLN 57286                           |
| DEPTH                                  | FEET | DESCRIPTION OF MATERIALS                                   | LOG NO.      | LOG NO. | LOG NO. | LOG NO. | LOG NO.                             |
| 20                                     | 8000 | Shore wave test setup                                      | 2.0          | 2       | 2       | 2       | drill out spec spoon hole           |
| 21                                     | 8100 | tested                                                     | 2.0          | 2       | 2       | 2       | 3" spec spoon                       |
|                                        | 8400 | gray silt clay moist soft                                  |              |         |         |         | (20-22 geotech sample)              |
|                                        | 7900 | Then 3' ss sample for LAG test                             |              |         |         |         |                                     |
| 22                                     |      | gray silt clay moist soft (disturbed from shore wave test) | 2.0          | 2       | 2       | 2       | Probable shore wave test zone       |
| 23                                     |      | gray silt clay moist soft                                  | 2.0          | 2       | 2       | 2       | 2" ss sample (22-24 geotech sample) |
| 24                                     | 8200 | gray clayey silt moist soft                                | 2.0          | 2       | 2       | 2       | 2" ss sample                        |
|                                        | 8000 |                                                            | 2.0          | 2       | 2       | 2       | (24-26 geotech sample)              |
|                                        | 8400 |                                                            |              |         |         |         |                                     |
|                                        | 8400 |                                                            |              |         |         |         |                                     |
| 25                                     |      |                                                            |              |         |         |         |                                     |
| 26                                     |      | EOB 26.0'                                                  |              |         |         |         |                                     |
| 27                                     |      | Boeing backfilled w/ bentonite                             |              |         |         |         |                                     |
|                                        |      | Gravel leached from bottom.                                |              |         |         |         |                                     |
| 28                                     |      | 1 lb. bent gravel                                          |              |         |         |         |                                     |
| 29                                     |      | Topped w/ gravel                                           |              |         |         |         |                                     |
| 30                                     |      | 6/7/05                                                     |              |         |         |         |                                     |

| HTRW DRILLING LOG                                                                                                           |  |            | DISTRICT ST. LOUIS                                               |                 | HOLE NUMBER<br>SLN 67287       |                     |
|-----------------------------------------------------------------------------------------------------------------------------|--|------------|------------------------------------------------------------------|-----------------|--------------------------------|---------------------|
| 1. COMPANY NAME SHAW ENVIRONMENTAL                                                                                          |  |            | 2. DRILLING <del>SUBCONTRACTOR</del> SHAN                        |                 |                                | SHEET 1 OF 3 SHEETS |
| 3. PROJECT FUSRAP/SLDS                                                                                                      |  |            | 4. LOCATION PSC Metals - south tract                             |                 |                                |                     |
| 5. NAME OF DRILLER DAN GOTO                                                                                                 |  |            | 6. MANUFACTURER'S DESIGNATION OF DRILL CME 75                    |                 |                                |                     |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br>CME 75 using 4" HSA and 3" x 2" split spoon unless otherwise noted |  |            | 8. HOLE LOCATION See location sketch                             |                 |                                |                     |
| PTD ERAC 327 NAE LUD<br>cal. date: Bkg:                                                                                     |  |            | 9. SURFACE ELEVATION 422.6                                       |                 |                                |                     |
| 12. OVERBURDEN THICKNESS N/A                                                                                                |  |            | 15. DEPTH GROUNDWATER ENCOUNTERED NA                             |                 |                                |                     |
| 13. DEPTH DRILLED INTO ROCK N/A                                                                                             |  |            | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED N/A |                 |                                |                     |
| 14. TOTAL DEPTH OF HOLE 12                                                                                                  |  |            | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) N/A                 |                 |                                |                     |
| 18. GEOTECHNICAL SAMPLES                                                                                                    |  | DISTURBED  | UNDISTURBED                                                      |                 | 19. TOTAL NUMBER OF CORE BOXES |                     |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                                                           |  | VOC        | METALS                                                           | OTHER (SPECIFY) | OTHER (SPECIFY)                | OTHER (SPECIFY)     |
| 22. DISPOSITION OF HOLE                                                                                                     |  | BACKFILLED | MONITORING WELL                                                  | OTHER (SPECIFY) | 23. SIGNATURE OF INSPECTOR     |                     |
|                                                                                                                             |  | yes        | N/A                                                              | N/A             |                                |                     |
| LOCATION SKETCH/COMMENTS                                                                                                    |  |            | Witnessed by:                                                    |                 | SCALE: Not to Scale            |                     |
|                                                                                                                             |  |            |                                                                  |                 |                                |                     |
| PROJECT FUSRAP/SLDS                                                                                                         |  |            | HOLE NO. SLN 67287                                               |                 |                                |                     |



5/23/05

87287  
87288

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                |                   |                           |                   |                |         |
|----------------------------------------|--------------------------------------------------------------------------------|-------------------|---------------------------|-------------------|----------------|---------|
| PROJECT: FUSRAP / SLDS                 |                                                                                |                   | INVESTIGATOR: M. McCARRIN |                   | HOLE NO: 87287 |         |
| DEPTH (ft)                             | DESCRIPTION OF MATERIALS                                                       | GROSS WEIGHT (lb) | NET WEIGHT (lb)           | WATER CONTENT (%) | MOISTURE (%)   | REMARKS |
| 1                                      | Black + gray<br>clayey sand<br>GRANUL fill<br>dry Loose                        | 9000<br>bkg owl   | 8500<br>0                 | 2.0               | SLD<br>87287   | 19      |
| 2                                      | White - buff<br>Grass fill<br>dry Loose                                        | 8700<br>0         | 8700<br>0                 | 2.0               | SLD<br>87289   | 54      |
| 3                                      | Gray - black<br>dry Loose<br>Cinders slag conc<br>GRANUL fill                  | 8700<br>0         | 8700<br>0                 | 2.0               | SLD<br>87300   | 52      |
| 4                                      | Black + gray<br>oil (Wet)<br>Oil Small (No Aid)<br>(Above Bkg)                 | 8600<br>0         | 8600<br>0                 | 2.0               | Archive        | 13      |
| 5                                      | GREEN + GRAY<br>Silty clay w/<br>Rock frags (fill)                             | 8300<br>0         | 8300<br>0                 | 2.0               | SLD<br>87301   | 14      |
| 6                                      | Black<br>Cinder slag fill<br>Loose moist                                       | 8300<br>0         | 8300<br>0                 | 2.0               | Archive        | 17      |
| 7                                      | Gray + black<br>Silty clay fill<br>w/ black nodules (bkg?)<br>mod loose, moist | 9000<br>0         | 9000<br>0                 | 2.0               | SLD<br>87302   | 3       |
| 8                                      | Black<br>Cinder slag (fill)<br>Loose moist                                     | 9300<br>0         | 9300<br>0                 | 2.0               | Archive        | 4       |
| 9                                      | Black + brown<br>Moist clay fill<br>Moist mod stiff                            | 9200<br>0         | 9200<br>0                 | 2.0               | SLD<br>87303   | 7       |
| 10                                     | Black + brown<br>Cinder slag fill<br>Moist Loose                               | 9300<br>0         | 9300<br>0                 | 2.0               | SLD<br>87304   | 9       |
| 11                                     | Black + green<br>Cinder slag fill<br>W/ large glass frags<br>Loose moist       | 9300<br>0         | 9300<br>0                 | 2.0               | Archive        | 5       |
| 12                                     | MISSING CORP                                                                   | 8800<br>0         | 8800<br>0                 | MISSING CORP      |                | 2       |
| 13                                     | Black + brown<br>Cinder slag fill<br>Moist Loose                               | 8700<br>0         | 8700<br>0                 | MISSING CORP      |                | 2       |
| 14                                     | Black + brown<br>Cinder slag fill<br>Moist Loose                               | 9400<br>0         | 9400<br>0                 | MISSING CORP      |                | 3       |
| 15                                     | GREEN + black<br>Silty clay w/ bkg                                             | 8500<br>0         | 8500<br>0                 | MISSING CORP      |                | 5       |

8:20  
9:04  
9:06  
9:10  
9:19  
9:20  
9:25  
9:34  
9:37  
9:46  
9:58  
10:02

FUSRAP / SLDS

HOLE NO: SLD 87287

5/23/05

87385

10.0

| HTRW DRILLING LOG (CONTINUED SHEET) |      |                                             |      |                  |              |      | WELL NO.           |
|-------------------------------------|------|---------------------------------------------|------|------------------|--------------|------|--------------------|
| PROJECT FUSRAP / SLDS               |      |                                             |      | DRILLER McCAGRAW |              |      | WELL NO. 87287     |
| DEPTH                               | TIME | DESCRIPTION OF MATERIAL                     | LOG  | TIME             | TIME         | TIME | TIME               |
| 11                                  |      | BUCK<br>CLAY SLUG med size                  | 8900 | 2.0              |              | 2    |                    |
| ML                                  | 11   | Dk Gray<br>clayey silt<br>Med med size      | 9000 | 2.0              | SLD<br>57305 | 3    |                    |
|                                     |      |                                             | 8700 |                  | Radio        | 4    |                    |
| CL                                  | 12   | Brown w/ yellow med<br>clay<br>med med size | 9500 |                  | Radio        | 5    |                    |
|                                     |      | EOB 12.0                                    |      |                  |              |      |                    |
|                                     | 13   | Boring backfill<br>w/ bentonite             |      |                  |              |      |                    |
|                                     |      | SLURRY                                      |      |                  |              |      |                    |
|                                     | 14   | traced from<br>bottom.                      |      |                  |              |      |                    |
|                                     |      | 1 b6 back-grout                             |      |                  |              |      |                    |
|                                     | 15   |                                             |      |                  |              |      |                    |
|                                     |      | VED OK 2/7/05                               |      |                  |              |      |                    |
|                                     | 16   | bentonite &<br>dirt showing<br>@ top        |      |                  |              |      |                    |
|                                     | 17   |                                             |      |                  |              |      |                    |
|                                     | 18   |                                             |      |                  |              |      |                    |
|                                     | 19   |                                             |      |                  |              |      |                    |
|                                     | 20   |                                             |      |                  |              |      |                    |
| PROJECT FUSRAP / SLDS               |      |                                             |      |                  |              |      | WELL NO. SLD 87287 |

10:25

10:28

10:30  
Finish

| <b>HTRW DRILLING LOG</b>                                                                                                                                                                                                                 |  |                 |  | DISTRICT <b>ST. LOUIS</b>                                               |  | HOLE NUMBER <b>SLD 87256</b>      |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------|--|-------------------------------------------------------------------------|--|-----------------------------------|--|
| 1. COMPANY NAME <b>SHAW ENVIRONMENTAL</b>                                                                                                                                                                                                |  |                 |  | 2. DRILLING SUBCONTRACTOR <b>SHAW</b>                                   |  | SHEET <b>1</b> OF <b>4</b> SHEETS |  |
| 3. PROJECT <b>FUSRAP/SLDS</b>                                                                                                                                                                                                            |  |                 |  | 4. LOCATION <b>PSC Metals (S. Locust)</b>                               |  |                                   |  |
| 5. NAME OF DRILLER <b>DAW Goto</b>                                                                                                                                                                                                       |  |                 |  | 6. MANUFACTURER'S DESIGNATION OF DRILL <b>CME 75</b>                    |  |                                   |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT <b>CME 75 using 4 1/2" HSA and 3 1/2" x 2' split spoon</b>                                                                                                                         |  |                 |  | 8. HOLE LOCATION <b>See location sketch</b>                             |  |                                   |  |
| 9. SURFACE ELEVATION <b>421.8</b>                                                                                                                                                                                                        |  |                 |  | 10. DATE STARTED <b>5/24/05</b>                                         |  |                                   |  |
| 11. DATE COMPLETED <b>5/24/05</b>                                                                                                                                                                                                        |  |                 |  | 12. OVERBORDEN THICKNESS <b>N/A</b>                                     |  |                                   |  |
| 13. DEPTH DRILLED INTO ROCK <b>N/A</b>                                                                                                                                                                                                   |  |                 |  | 15. DEPTH GROUNDWATER ENCOUNTERED <b>NA 10.0'</b>                       |  |                                   |  |
| 14. TOTAL DEPTH OF HOLE <b>12.0'</b>                                                                                                                                                                                                     |  |                 |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED <b>N/A</b> |  |                                   |  |
| 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) <b>N/A</b>                                                                                                                                                                                  |  |                 |  | 18. GEOTECHNICAL SAMPLES                                                |  |                                   |  |
| DISTURBED                                                                                                                                                                                                                                |  | UNDISTURBED     |  | 19. TOTAL NUMBER OF CORE BOXES                                          |  | 20. SAMPLES FOR CHEMICAL ANALYSIS |  |
| VOC                                                                                                                                                                                                                                      |  | METALS          |  | OTHER (SPECIFY)                                                         |  | OTHER (SPECIFY)                   |  |
| RAD                                                                                                                                                                                                                                      |  | OTHER (SPECIFY) |  | OTHER (SPECIFY)                                                         |  | 21. TOTAL CORE RECOVERY           |  |
| 22. DISPOSITION OF HOLE                                                                                                                                                                                                                  |  | BACKFILLED      |  | MONITORING WELL                                                         |  | 23. SIGNATURE OF INSPECTOR        |  |
| yes                                                                                                                                                                                                                                      |  | N/A             |  | N/A                                                                     |  | <b>ZZZZ</b>                       |  |
| <div style="display: flex; justify-content: space-between;"> <span>LOCATION SKETCH/COMMENTS Witnessed by:</span> <span>SCALE: Not to Scale</span> </div> <div style="border: 1px solid black; padding: 10px; min-height: 300px;"> </div> |  |                 |  |                                                                         |  |                                   |  |
| PROJECT <b>FUSRAP/SLDS</b>                                                                                                                                                                                                               |  |                 |  |                                                                         |  | HOLE NO. <b>SLD 87256</b>         |  |

5/24/05

8728  
87310

8.25  
8.25  
8.25  
8.25

8:40

8.49

9-08

9.11

9-14

5/24/05

9:30

PSC Metals (S. Leach)  
5/21/05

87316

Redrill

10:11

Start 10:20  
10:47

10:39  
10:46

Redrill

| HTRW DRILLING LOG (CONTINUATION SHEET) |      |                                                                               |                     |     |           |          | WELL NO.         |
|----------------------------------------|------|-------------------------------------------------------------------------------|---------------------|-----|-----------|----------|------------------|
| PROJECT FUSRAP / SLDS                  |      |                                                                               | DRILLER M. McCARRIN |     |           | DATE 4.9 | WELL NO. 6087086 |
| DEPTH                                  | FEET | DESCRIPTION OF MATERIAL                                                       | LOG                 | LOG | LOG       | LOG      | LOG              |
| 1                                      |      |                                                                               |                     |     |           |          |                  |
| 2                                      |      |                                                                               |                     |     |           |          |                  |
| 3                                      |      |                                                                               |                     |     |           |          |                  |
| 4                                      |      |                                                                               |                     |     |           |          |                  |
| 5                                      |      |                                                                               |                     |     |           |          |                  |
| CL                                     | 5    | Brown silty clay moist med soft weathered w/ rust fractures                   | 6400 0              | 2.0 | Anticline | 3        |                  |
| GP                                     | 6    | Gray silty clay w/ rust fractures white gray + green gravel + broken rock any | 6400 0              | 2.0 | SLD 87317 | 3        |                  |
| CL                                     | 7    | Gray silty clay                                                               | 6700 0              |     | SLD 87316 | 27       |                  |
|                                        | 7    | Gray silty clay                                                               | 6800 0              |     | Anticline | 17       |                  |
|                                        | 8    | Gray silty clay moist med stiff                                               |                     |     |           |          |                  |
|                                        | 9    | Boring stopped w/ gravel (in) + Band                                          |                     |     |           |          |                  |
|                                        | 10   | VED/OK 6/7/05                                                                 |                     |     |           |          |                  |

SEE previous log

Redrill  
to  
S.O.  
w/out  
sampling

insitu  
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Boring stopped w/ gravel (in) + Band

VED/OK 6/7/05

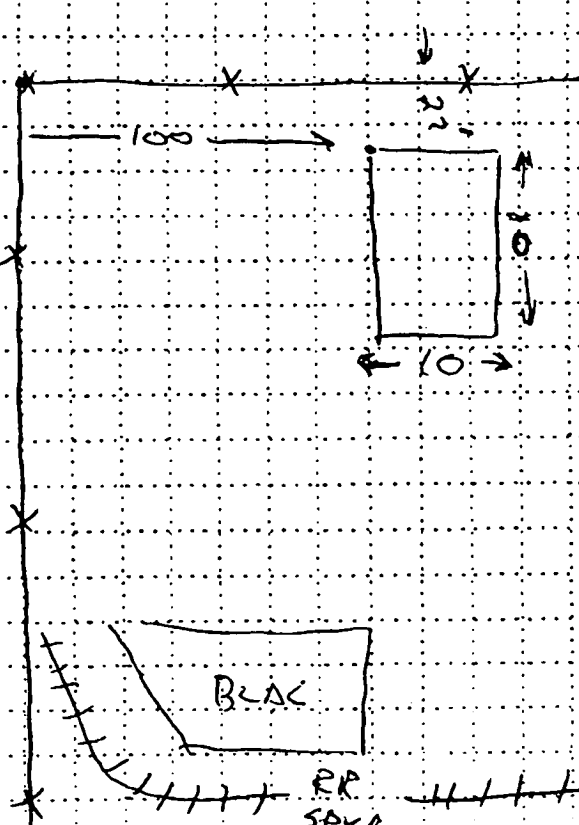
PROJECT FUSRAP / SLDS

WELL NO. 6087086

|                                                                                          |  |                                                                           |  |                                      |  |
|------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------|--|--------------------------------------|--|
| <b>HTRW DRILLING LOG</b>                                                                 |  | DISTRICT <u>St. Louis</u>                                                 |  | HOLE NUMBER <u>SLD 67 322</u>        |  |
| 1. COMPANY NAME<br><u>SHAW ENVIRONMENTAL</u>                                             |  | 2. DRILLING SPECIFICATIONS<br>EXCAVATOR: <u>SHAW</u>                      |  | SHEET <u>1 of 3</u> SHEETS           |  |
| 3. PROJECT<br><u>FUSRAP/ SLOS</u>                                                        |  | 4. LOCATION<br><u>PSC METALS (NT 2)</u>                                   |  |                                      |  |
| 5. NAME OF DRILLER<br><u>KEVIN MOONEY</u>                                                |  | 6. MANUFACTURER'S DESIGNATION OF DRILL<br><u>J. DEERE</u>                 |  |                                      |  |
| 7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT<br><u>JD 310E w/ 1 Foot Buckel</u> |  | 8. HOLE LOCATION<br><u>Psc metals (NT 2)</u>                              |  |                                      |  |
|                                                                                          |  | 9. SURFACE ELEVATION                                                      |  |                                      |  |
|                                                                                          |  | 10. DATE STARTED<br><u>6/16/05</u>                                        |  | 11. DATE COMPLETED<br><u>6/16/05</u> |  |
| 12. OVERBURDEN THICKNESS<br><u>NA</u>                                                    |  | 15. DEPTH GROUNDWATER ENCOUNTERED<br><u>NA</u>                            |  |                                      |  |
| 13. DEPTH DRILLED INTO ROCK<br><u>NA</u>                                                 |  | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED<br><u>NA</u> |  |                                      |  |
| 14. TOTAL DEPTH OF HOLE<br><u>4.5</u>                                                    |  | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)<br><u>NA</u>                 |  |                                      |  |
| 18. GEOTECHNICAL SAMPLES<br><u>NA</u>                                                    |  | DISTURBED<br><u>NA</u>                                                    |  | UNDISTURBED<br><u>NA</u>             |  |
| 19. TOTAL NUMBER OF CORE BOXES<br><u>NA</u>                                              |  |                                                                           |  |                                      |  |
| 20. SAMPLES FOR CHEMICAL ANALYSIS                                                        |  | TOC<br><u>NA</u>                                                          |  | METALS<br><u>NA</u>                  |  |
|                                                                                          |  | OTHER (SPECIFY)<br><u>RADIOLOGICAL</u>                                    |  | OTHER (SPECIFY)<br><u>NA</u>         |  |
| 21. TOTAL CORE RECOVERY<br><u>NA</u>                                                     |  |                                                                           |  |                                      |  |
| 22. DISPOSITION OF HOLE                                                                  |  | SACK FILLED<br><u>X</u>                                                   |  | MONITORING WELL<br><u>NA</u>         |  |
| 23. SIGNATURE OF INSPECTOR<br><u>LLC</u>                                                 |  | OTHER (SPECIFY)<br><u>NA</u>                                              |  |                                      |  |

LOCATION SKETCH/COMMENTS

SCALE:



PSC METALS  
DRILL TRACT

PROJECT

HOLE NO.

SLD 67 322

RESAMPLE OF  
HTR 66 219

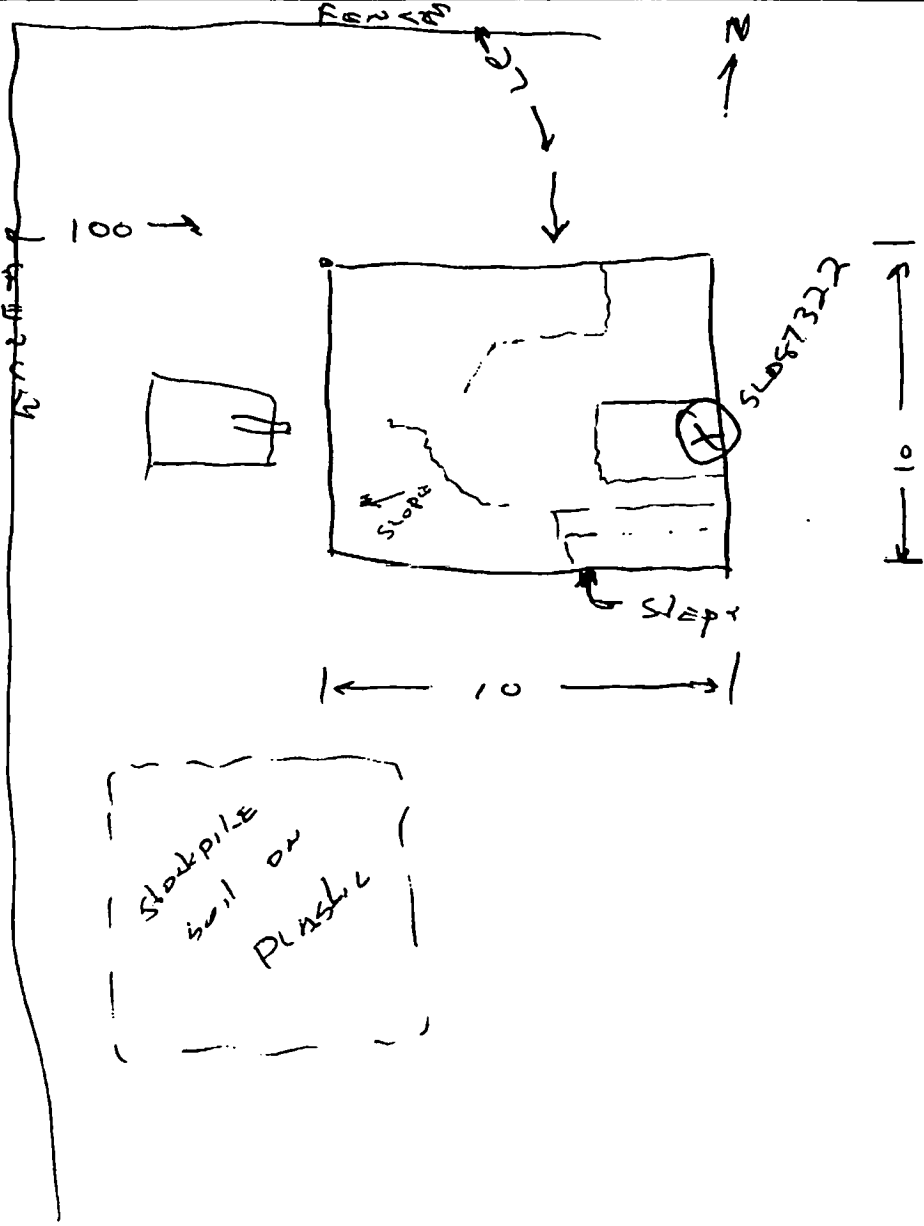
STONE & WEBSTER ENGINEERING CORPORATION  
 CALCULATION SHEET

A-5010.65

| CALCULATION IDENTIFICATION NUMBER |                  |                 |                    |
|-----------------------------------|------------------|-----------------|--------------------|
| J.O. OR W.O. NO.                  | DIVISION & GROUP | CALCULATION NO. | OPTIONAL TASK CODE |

PAGE 213  
 SLD67322

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46





SLD 67 322  
87 322  
87 327

| HTRW DRILLING LOG (CONTINUATION SHEET) |                                                                                                            |       |                       |       |      |            | LOG NUMBER                                                    |
|----------------------------------------|------------------------------------------------------------------------------------------------------------|-------|-----------------------|-------|------|------------|---------------------------------------------------------------|
| PROJECT FUSRAP / SLOS                  |                                                                                                            |       | INSPECTOR M. McCarrin |       |      |            | SLD 67 322                                                    |
|                                        |                                                                                                            |       |                       |       |      |            | SHEET 3 of 3                                                  |
| DEPTH                                  | DESCRIPTION OF MATERIALS                                                                                   | FEET  | FEET                  | FEET  | FEET | FEET       | REMARKS                                                       |
| 1                                      | BLACK CINDERS / SLAG<br>MOIST w/ BRIC FRAGS                                                                | 13000 |                       |       |      | SLD 67 322 | SEE - 11.4<br>These were<br>Not in HTZ<br>Location<br>See 4.1 |
| 2                                      | GRAY CLAY SILT<br>FILL (POSSIBLE FILL @ TOP)<br>MOIST MED STIFF<br>(NO BRICKS, ROCKS,<br>CONCRETE OR WOOD) | 14500 | 15000                 | 15000 |      | SLD 67 327 | See 1.7<br>(duplicate)                                        |
| 3                                      |                                                                                                            | 16000 | 16000                 | 15000 |      | SLD 67 328 |                                                               |
| 4                                      |                                                                                                            | 17000 | 18000                 | 11000 |      | SLD 67 329 |                                                               |
| 5                                      |                                                                                                            | 19000 | 20000                 | 10500 |      | SLD 67 330 |                                                               |
| 6                                      |                                                                                                            | 21000 | 22000                 | 11000 |      | SLD 67 331 | Possible inside                                               |
| 7                                      | YELLOW / GRAY<br>SILTY CLAY (FILL?)<br>MOIST<br>EOTB was stiff                                             |       |                       |       |      |            |                                                               |
| 8                                      | 2.00 Finish sampling                                                                                       |       |                       |       |      |            |                                                               |
| 9                                      | (PID EDN. by J.<br>Hurley in backfill<br>zone)                                                             |       |                       |       |      |            |                                                               |
| 10                                     | Test pit backfill<br>w/ ESCAPE from<br>drilling. Bucket<br>tamped.                                         |       |                       |       |      |            |                                                               |

12:25  
11:20  
11:30  
11:40  
11:50

RESAMPLE OF  
HTZ 66219

***Appendix B***

DT-8 Gamma Radiological Walkover Survey Data

SAIC/EEMG

HP-405, REV.0  
Attachment 1

SAIC

**RADIOLOGICAL SURVEY REPORT  
FUSRAP ST. LOUIS, MO**

Page 1 of 1

| SURVEY LOCATION: PSC METALS         |                                    |                                   |                          |                     |
|-------------------------------------|------------------------------------|-----------------------------------|--------------------------|---------------------|
| DATE: 10/25/02                      |                                    | TIME: 1200                        |                          |                     |
| PURPOSE OF SURVEY: CHARACTERIZATION |                                    |                                   |                          |                     |
| Instrument Type(s):<br>(✓ if used)  | Serial Number:<br>(meter/detector) | Cal Due Date:<br>(meter-detector) | Background:<br>(CPM α/β) | Efficiency<br>(α/β) |
| X Ludlum 2221/44-10                 |                                    |                                   |                          |                     |
| X Ludlum 2221/44-10                 |                                    |                                   |                          |                     |
| X Ludlum 2221/44-10                 |                                    |                                   |                          |                     |
| Ludlum 2221/44-10                   |                                    |                                   |                          |                     |

Plus Debris in Gutters - 2 locations, 2 Samples each

|          |            |        |          |        |          |          |          |          |          |        |        |        |        |        |      |
|----------|------------|--------|----------|--------|----------|----------|----------|----------|----------|--------|--------|--------|--------|--------|------|
| 56       | 57         | 58     | 59       | 60     | 61       | 62       | 63       | 64       | 65       | 66     | 67     | 68     | 69     | 70     | 71   |
| 8-9K     | 8500-10000 | 7-7.5K | 6.5-7.5K | 7-8K   | 7-8K     | 8-9K     | 8-9K     | 8-9K     | 8-9K     | 8-9K   | 8-9K   | 8-9K   | 8-9K   | 8-9K   | 8-9K |
| 4.5-5.5K |            |        |          |        |          |          |          |          |          |        |        |        |        |        |      |
| 8-9K     | 7-8K       | 7.5-8K | 7-8K     | 7.5-8K | 6.5-7.5K | 6.5-7.5K | 6.5-7.5K | 6.5-7.5K | 6.5-7.5K | 7.5-8K | 7.5-8K | 7-7.5K | 6.5-7K | 6.5-7K | 6-7K |

REMARKS: NORTHERN STALLS WERE DIRT AND SAW DUST FLOORS WHILE THE SOUTHERN SIDE WAS MOSTLY GRAVEL - CONCRETE RAN DOWN THE MIDDLE - DEBRIS COVERED APPROX. HALF OF THE CONCRETE (NOT PICTURED)

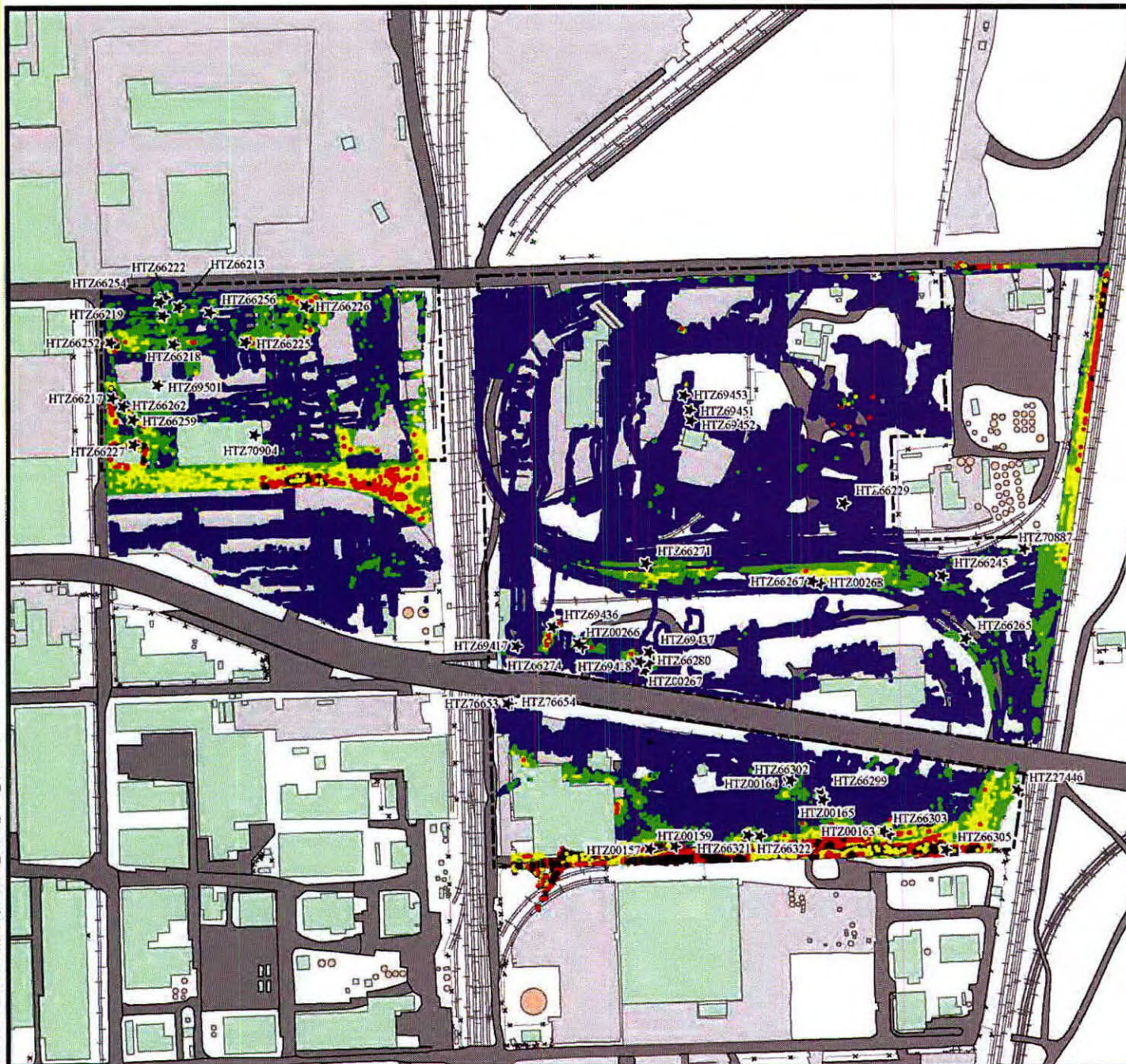
Lrg. Southern Bldg. (MFC)

TECHNICIAN(S) SIGNATURE/DATE: [Signature] 10/25/02

VIEWER SIGNATURE/DATE: [Signature] 10-29-02



U:\GPS\SLDS\PSC Metals\Projects\PSC\_Metals\_GHS\_rvw1.mxd



Legend:

★ SLDS HTZ Sample Locations

Soil CPM

- 0 - 6000
- 6001 - 8000
- 8001 - 10000
- 10001 - 12000
- 12001 - 1000000

Gravel CPM

- 0 - 8000
- 8001 - 10000
- 10001 - 12000
- 12001 - 14000
- 14001 - 1000000

Asphalt CPM

- 0 - 5000
- 5001 - 7000
- 7001 - 9000
- 9001 - 15000
- 15001 - 1000000

Concrete CPM

- 0 - 6000
- 6001 - 8000
- 8001 - 10000
- 10001 - 12000
- 12001 - 100000

**DRAFT**



0 195 390 Feet



PSC Metals (DT-8)  
St. Louis Downtown Site  
St. Louis, Missouri

**FUSRAP**

DRAWN BY:  
DLL, JAL

REV:  
0

DATE:  
02/21/2006

PSC Metals - SLDS HTZ Sample Locations

## ***Appendix C***

Table C-1: PSC Metals Vicinity Property  
Pre-Design Investigation Radiological Data Results



**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

Page 1 of 203

| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| HTZ00157        | HTZ00157                     | 08/07/00        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.67                                     | 0.18  | 0.29                    | 3.53                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.25                                     | 0.14  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.58                                     | 0.09  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 6.26                                     | 0.94  | 0.51                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.12                                    | 1.08  | 1.56                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 7.15                                     | 0.34  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.59                                     | 0.10  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.80                                     | 0.45  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 18.00                                    | 3.82  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.92                                     | 0.48  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.98                                     | 0.30  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 17.41                                    | 2.38  | 6.11                    |                                  |
|                 | HTZ00158                     | 08/07/00        | 2                                 | 2.5                |                                  | Actinium-227     | 0.20                                     | 0.13  | 0.26                    | 0.26                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.09                                     | 0.10  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.06                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 6.84                                     | 1.03  | 0.43                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.18                                     | 0.66  | 1.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.36                                     | 0.14  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.83                                     | 0.12  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.91                                     | 0.48  | 0.33                    |                                  |
| HTZ00159        | HTZ00159                     | 08/07/00        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.28                                     | 0.17  | 0.27                    | 1.11                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.01                                    | 0.06  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.28                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 8.70                                     | 1.12  | 0.42                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.37                                    | 0.76  | 1.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.70                                     | 0.21  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.94                                     | 0.10  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.10                                     | 0.54  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 6.63                                     | 1.69  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.54                                     | 0.37  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.62                                     | 0.20  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 10.05                                    | 1.26  | 4.77                    |                                  |
|                 | HTZ00160                     | 08/07/00        | 1                                 | 1.5                |                                  | Actinium-227     | 2.04                                     | 0.33  | 0.48                    | 1.81                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.10                                    | 0.50  | 0.77                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.07                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 7.36                                     | 1.36  | 0.74                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 1.41                                     | 1.77  | 2.59                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 22.26                                    | 1.11  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.85                                     | 0.18  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.16                                     | 0.53  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 24.48                                    | 4.77  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.65                                     | 0.38  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 1.79                                     | 0.49  | 0.59                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 17.02                                    | 5.09  | 9.16                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of Ratios Value <sup>5</sup> |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| HTZ00163        | HTZ00163                     | 08/16/00        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.30                                     | 0.14  | 0.22                    | 0.71                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.04                                     | 0.21  | 0.33                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.04                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 10.26                                    | 1.24  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.15                                     | 0.66  | 0.98                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.24                                     | 0.14  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.00                                     | 0.11  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.16                                     | 0.64  | 0.53                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 3.28                                     | 1.17  | 0.43                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.30                                     | 0.66  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.95                                     | 0.20  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 21.35                                    | 3.08  | 3.31                    |                                  |
| HTZ00164        | HTZ00164                     | 08/16/00        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.15                                     | 0.09  | 0.14                    | 1.05                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.02                                    | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 2.19                                     | 0.35  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.09                                     | 0.39  | 0.59                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.66                                     | 0.14  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.78                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.97                                     | 0.92  | 0.60                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 7.20                                     | 2.17  | 0.68                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.87                                     | 0.60  | 0.64                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.25                                     | 0.11  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.72                                     | 0.42  | 2.14                    |                                  |
| HTZ00165        | HTZ00165                     | 08/16/00        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.12                                     | 0.12  | 0.17                    | 0.21                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.04                                     | 0.06  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.07                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 4.23                                     | 0.56  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.16                                    | 0.49  | 0.70                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.10                                     | 0.07  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.66                                     | 0.12  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 2.45                                     | 0.84  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.12                                     | 0.77  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.96                                     | 0.73  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.04                                     | 0.10  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.21                                     | 1.03  | 2.93                    |                                  |
| HTZ00266        | HTZ00266                     | 10/11/00        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.33                                     | 0.20  | 0.32                    | 2.50                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.10                                     | 0.27  | 0.42                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 10.57                                    | 1.36  | 0.46                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.00                                     | 0.94  | 1.41                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 5.26                                     | 0.29  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.04                                     | 0.13  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.04                                     | 0.13  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 5.62                                     | 16.78 | 27.77                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.04                                     | 0.13  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.62                                     | 0.29  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 6.10                                     | 2.69  | 5.17                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| HTZ00267        | HTZ00267                     | 10/11/00        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.18                                     | 0.14  | 0.22                    | 1.62                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.06                                     | 0.20  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.76                                     | 1.20  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.22                                     | 0.64  | 0.98                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.14                                     | 0.18  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.03                                     | 0.12  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.03                                     | 0.12  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -7.76                                    | 13.16 | 19.84                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.03                                     | 0.12  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.37                                     | 0.20  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.33                                     | 1.86  | 3.98                    |                                  |
| HTZ00268        | HTZ00268                     | 10/11/00        | 0                                 | 0.5                | 0.0                              | Actinium-227     | -0.05                                    | 0.22  | 0.24                    | 1.88                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.22  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.50                                     | 0.10  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 7.95                                     | 1.10  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.01                                    | 0.69  | 1.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.33                                     | 0.19  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.78                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.78                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -6.43                                    | 13.10 | 21.15                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.78                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.42                                     | 0.18  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 9.02                                     | 2.32  | 4.14                    |                                  |
| HTZ27446        | HTZ27446                     | 11/02/01        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.05                                     | 0.18  | 0.27                    | 0.92                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.02                                    | 0.12  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.27                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.96                                     | 1.00  | 0.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.78                                     | 0.79  | 1.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.57                                     | 0.11  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.85                                     | 0.09  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.85                                     | 0.49  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 5.21                                     | 1.48  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.40                                     | 0.64  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.74                                     | 0.21  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 11.64                                    | 1.79  | 1.58                    |                                  |
|                 | HTZ27447                     | 11/02/01        | 0.5                               | 1.0                | 0.5                              | Actinium-227     | 0.25                                     | 0.13  | 0.22                    | 0.31                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.10                                     | 0.10  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.05                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.16                                    | 1.01  | 0.36                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.08                                    | 0.70  | 1.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.46                                     | 0.11  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.87                                     | 0.10  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.19                                     | 0.55  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 5.48                                     | 1.43  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.99                                     | 0.49  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.23                                     | 0.18  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 5.04                                     | 1.42  | 1.39                    |                                  |



**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| HTZ66213        | HTZ66213                     | 01/04/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 45.16                                    | 1.26  | 0.45                    | 53.07                            |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 3.18                                     | 0.46  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.02                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 12.49                                    | 0.88  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 46.74                                    | 2.27  | 2.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 4.23                                     | 0.16  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.53                                     | 0.12  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 3.40                                     | 1.37  | 0.57                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 95.53                                    | 17.01 | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 2.38                                     | 1.11  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 86.96                                    | 2.93  | 0.66                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1706.00                                  | 75.11 | 2.93                    |                                  |
|                 | HTZ66214                     | 01/04/02        | 0.5                               | 1.0                | 0.5                              | Actinium-227     | 32.58                                    | 0.99  | 0.56                    | 36.90                            |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 3.87                                     | 0.68  | 0.85                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 12.91                                    | 1.08  | 0.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 32.78                                    | 2.00  | 2.46                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 4.07                                     | 0.17  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.85                                     | 0.16  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 3.42                                     | 1.44  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 103.10                                   | 18.90 | 0.64                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 2.64                                     | 1.24  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 75.59                                    | 2.63  | 0.86                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1504.00                                  | 66.99 | 5.45                    |                                  |
|                 | HTZ66215                     | 01/04/02        | 1                                 | 1.5                | 1.0                              | Actinium-227     | 0.85                                     | 0.16  | 0.23                    | 3.34                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.60                                     | 0.20  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 11.60                                    | 0.95  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 1.16                                     | 0.75  | 1.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.47                                     | 0.13  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.11                                     | 0.09  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.17                                     | 0.51  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 5.98                                     | 1.43  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.19                                     | 0.51  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 7.90                                     | 0.39  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 154.60                                   | 8.16  | 1.21                    |                                  |
|                 | HTZ66216                     | 01/04/02        | 1.5                               | 2.0                | 1.5                              | Actinium-227     | 8.72                                     | 0.29  | 0.21                    | 10.53                            |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.87                                     | 0.15  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 13.68                                    | 0.92  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 9.72                                     | 0.83  | 0.98                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.88                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.97                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.45                                     | 0.57  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 23.41                                    | 4.34  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.35                                     | 0.55  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 23.22                                    | 0.82  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 455.50                                   | 20.45 | 1.36                    |                                  |

**Table C-1**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| HTZ66217        | HTZ66217                     | 01/04/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 24.65                                    | 0.86  | 0.71                    | 12.99                            |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 1.06                                     | 0.40  | 0.60                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.05                                     | 0.06  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 6.81                                     | 1.08  | 0.80                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 26.50                                    | 2.26  | 3.39                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 37.53                                    | 1.03  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.99                                     | 0.15  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.75                                     | 0.67  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 11.30                                    | 2.46  | 0.45                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.60                                     | 0.39  | 0.41                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 25.70                                    | 1.11  | 0.87                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 302.80                                   | 18.11 | 5.01                    |                                  |
| HTZ66218        | HTZ66218                     | 01/04/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.32                                     | 0.17  | 0.27                    | 0.47                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.05                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.00                                    | 0.94  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.07                                     | 0.75  | 1.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.19                                     | 0.12  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.67                                     | 0.12  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 2.35                                     | 0.84  | 0.46                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.35                                     | 1.04  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.54                                     | 0.64  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.29                                     | 0.22  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.75                                     | 0.85  | 0.81                    |                                  |
| HTZ66219        | HTZ66219                     | 01/04/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 8.47                                     | 0.29  | 0.23                    | 11.42                            |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.55                                     | 0.19  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.02                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.52                                    | 0.78  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 10.49                                    | 0.92  | 1.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.90                                     | 0.11  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.10                                     | 0.08  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.06                                     | 0.47  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 34.53                                    | 6.10  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.50                                     | 0.57  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 13.64                                    | 0.54  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 242.40                                   | 11.56 | 1.39                    |                                  |
|                 | HTZ66220                     | 01/04/02        | 0.5                               | 1.0                | 0.5                              | Actinium-227     | 5.89                                     | 0.23  | 0.21                    | 4.11                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.52                                     | 0.20  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 13.78                                    | 0.98  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 7.05                                     | 0.76  | 0.98                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.79                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.97                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.31                                     | 0.54  | 0.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 15.26                                    | 2.93  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.91                                     | 0.42  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 9.00                                     | 0.39  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 162.40                                   | 8.11  | 1.27                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| HTZ66219        | HTZ66221                     | 01/04/02        | 1                                 | 1.5                | 1.0                              | Actinium-227     | 0.27                                     | 0.11  | 0.18                    | 1.69                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.05                                     | 0.07  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.02                                    | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 15.39                                    | 1.10  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.36                                     | 0.49  | 0.76                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.25                                     | 0.06  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.91                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.53                                     | 0.61  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.75                                     | 1.08  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.01                                     | 0.48  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 3.77                                     | 0.21  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 79.92                                    | 4.51  | 0.92                    |                                  |
| HTZ66222        | HTZ66222                     | 01/07/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 7.69                                     | 0.29  | 0.23                    | 5.70                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 1.25                                     | 0.46  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.14                                     | 0.04  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.84                                     | 0.81  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 8.24                                     | 0.80  | 1.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.15                                     | 0.09  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.05                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.66                                     | 0.62  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 15.59                                    | 3.10  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.63                                     | 0.36  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 8.26                                     | 0.40  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 148.90                                   | 7.82  | 2.28                    |                                  |
|                 | HTZ66223                     | 01/07/02        | 0.5                               | 1.0                | 0.5                              | Actinium-227     | 0.61                                     | 0.11  | 0.20                    | 2.34                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.31                                     | 0.16  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 16.93                                    | 1.25  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.90                                     | 0.64  | 1.01                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.11                                     | 0.09  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.22                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.27                                     | 0.56  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 4.51                                     | 1.22  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.50                                     | 0.60  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 5.32                                     | 0.28  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 108.60                                   | 6.17  | 1.91                    |                                  |
|                 | HTZ66224                     | 01/07/02        | 1                                 | 1.5                | 1.0                              | Actinium-227     | 0.03                                     | 0.12  | 0.18                    | 1.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.18                                     | 0.13  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 13.36                                    | 1.05  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.29                                     | 0.51  | 0.81                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.79                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.73                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.02                                     | 0.47  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.30                                     | 0.76  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.65                                     | 0.36  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 2.39                                     | 0.20  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 50.10                                    | 3.44  | 1.62                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| HTZ66225        | HTZ66225                     | 01/07/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.14                                     | 0.18  | 0.28                    | 0.59                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.11  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.09                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.78                                     | 1.05  | 0.41                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.71                                     | 0.71  | 1.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.13                                     | 0.13  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.09                                     | 0.11  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.31                                     | 0.58  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 4.21                                     | 1.20  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.53                                     | 0.63  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.20                                     | 0.17  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.85                                     | 1.45  | 1.51                    |                                  |
| HTZ66226        | HTZ66226                     | 01/07/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.12                                     | 0.19  | 0.29                    | 0.76                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.06                                     | 0.12  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.28                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.87                                    | 1.02  | 0.45                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.46                                     | 0.86  | 1.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 4.16                                     | 0.15  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.29                                     | 0.11  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.94                                     | 0.75  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 5.05                                     | 1.40  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.33                                     | 0.60  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.43                                     | 0.24  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 5.05                                     | 1.41  | 1.54                    |                                  |
| HTZ66227        | HTZ66227                     | 01/07/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.07                                     | 0.14  | 0.21                    | 0.04                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.06                                     | 0.08  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.14                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 8.43                                     | 0.84  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.04                                     | 0.63  | 0.98                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.55                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.84                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.92                                     | 0.49  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.10                                     | 0.78  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.11                                     | 0.53  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.42                                     | 0.21  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.78                                     | 0.90  | 1.13                    |                                  |
| HTZ66229        | HTZ66229                     | 01/07/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.02                                     | 0.08  | 0.13                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 5.66                                     | 0.56  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.24                                    | 0.33  | 0.57                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.66                                     | 0.04  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.26                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.41                                     | 0.31  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.73                                     | 0.41  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.69                                     | 0.39  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.03                                     | 0.07  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.72                                     | 0.54  | 0.67                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| HTZ66230        | HTZ66230                     | 01/07/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.22                                     | 0.17  | 0.24                    | 0.89                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.13                                     | 0.10  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.11                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 8.52                                     | 0.85  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.07                                     | 0.71  | 1.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.43                                     | 0.13  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.91                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.36                                     | 0.61  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 5.74                                     | 1.52  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.40                                     | 0.61  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.29                                     | 0.20  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 4.82                                     | 1.03  | 1.30                    |                                  |
| HTZ66232        | HTZ66232                     | 01/09/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.14                                     | 0.10  | 0.16                    | 0.11                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.04                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 4.56                                     | 0.46  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.13                                     | 0.45  | 0.68                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.37                                     | 0.08  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.86                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.39                                     | 0.57  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.41                                     | 0.80  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.69                                     | 0.39  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.17                                     | 0.13  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.47                                     | 0.55  | 0.47                    |                                  |
| HTZ66245        | HTZ66245                     | 01/22/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.08                                     | 0.13  | 0.20                    | 0.19                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.07                                     | 0.13  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.12                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 5.88                                     | 0.68  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.25                                     | 0.56  | 0.89                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.61                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.56                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.12                                     | 0.57  | 0.36                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.75                                     | 0.98  | 0.58                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.07                                     | 0.56  | 0.48                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.17                                     | 0.14  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.82                                     | 1.46  | 1.63                    |                                  |
| HTZ66246        | HTZ66246                     | 01/22/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.12                                     | 0.13  | 0.19                    | 0.09                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.12  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.43                                     | 0.04  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 5.45                                     | 0.59  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.15                                     | 0.53  | 0.83                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.56                                     | 0.07  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.69                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.19                                     | 0.54  | 0.39                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.32                                     | 0.79  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.21                                     | 0.23  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.24                                     | 0.16  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.28                                     | 1.11  | 1.47                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| HTZ66252        | HTZ66252                     | 01/22/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.31                                     | 0.16  | 0.24                    | 0.53                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.16  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 12.19                                    | 1.07  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.62                                    | 0.99  | 1.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.88                                     | 0.14  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.33                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 3.82                                     | 1.18  | 0.44                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.83                                     | 1.15  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.29                                     | 0.58  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.42                                     | 0.20  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 5.10                                     | 1.61  | 1.97                    |                                  |
|                 | HTZ66253                     | 01/22/02        | 0.5                               | 1.0                | 0.5                              | Actinium-227     | 0.00                                     | 0.13  | 0.19                    | 0.29                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.12  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 12.52                                    | 1.08  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.13                                     | 0.54  | 0.85                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.35                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.71                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.71                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -3.54                                    | 8.14  | 12.54                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.71                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.14                                     | 0.14  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.43                                     | 1.51  | 1.50                    |                                  |
| HTZ66254        | HTZ66254                     | 01/22/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 13.05                                    | 0.45  | 0.37                    | 21.10                            |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 2.13                                     | 0.60  | 0.87                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.15                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 7.81                                     | 0.72  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 14.52                                    | 1.21  | 1.63                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.14                                     | 0.13  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.95                                     | 0.10  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.95                                     | 0.10  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -123.40                                  | 35.49 | 54.92                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.95                                     | 0.10  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 40.33                                    | 1.44  | 0.61                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 801.00                                   | 36.39 | 3.76                    |                                  |
|                 | HTZ66255                     | 01/22/02        | 0.5                               | 1.0                | 1.0                              | Actinium-227     | 14.55                                    | 0.49  | 0.40                    | 18.98                            |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 2.50                                     | 0.66  | 0.95                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 14.14                                    | 1.08  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 15.83                                    | 1.29  | 1.77                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.09                                     | 0.13  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.35                                     | 0.12  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.35                                     | 0.12  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -98.39                                   | 37.78 | 59.66                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.35                                     | 0.12  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 43.10                                    | 1.54  | 0.65                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 855.90                                   | 38.86 | 4.00                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of Ratios Value <sup>5</sup> |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| HTZ66256        | HTZ66256                     | 01/22/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.22                                     | 0.20  | 0.30                    | 0.66                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.07                                     | 0.19  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.15                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 9.85                                     | 0.96  | 0.38                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.02                                    | 0.79  | 1.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.70                                     | 0.14  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.19                                     | 0.11  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.65                                     | 0.67  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 4.06                                     | 1.15  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.35                                     | 0.58  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.66                                     | 0.26  | 0.33                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 10.50                                    | 2.28  | 2.29                    |                                  |
|                 | HTZ66257                     | 01/22/02        | 0.5                                | 1.0                | 1.0                              | Actinium-227     | 0.49                                     | 0.24  | 0.34                    | 1.12                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.19                                     | 0.24  | 0.39                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.03                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.95                                    | 1.20  | 0.47                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.25                                     | 0.98  | 1.52                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.79                                     | 0.15  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.24                                     | 0.11  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.24                                     | 0.11  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 12.25                                    | 14.79 | 24.88                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.24                                     | 0.11  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 1.07                                     | 0.26  | 0.34                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 21.34                                    | 3.15  | 2.89                    |                                  |
|                 | HTZ66258                     | 01/22/02        | 1                                  | 1.5                | 1.0                              | Actinium-227     | 0.22                                     | 0.17  | 0.26                    | 0.04                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.09                                     | 0.17  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 12.48                                    | 1.15  | 0.34                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.48                                     | 0.71  | 1.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.07                                     | 0.09  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.08                                     | 0.09  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.35                                     | 0.58  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.77                                     | 0.66  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.33                                     | 0.56  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.23                                     | 0.15  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.68                                     | 1.75  | 2.07                    |                                  |
| HTZ66259        | HTZ66259                     | 01/22/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 2.81                                     | 0.23  | 0.35                    | 5.47                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.78                                     | 0.38  | 0.60                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.03                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 10.99                                    | 1.20  | 0.50                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 2.41                                     | 0.95  | 1.53                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 4.33                                     | 0.17  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.28                                     | 0.13  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.28                                     | 0.13  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -44.92                                   | 25.47 | 37.84                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.28                                     | 0.13  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 5.66                                     | 0.45  | 0.47                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 101.70                                   | 7.04  | 4.44                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| HTZ66259        | HTZ66260                     | 01/22/02        | 0.5                               | 1.0                | 0.5                              | Actinium-227     | 1.95                                     | 0.24  | 0.41                    | 7.34                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.78                                     | 0.55  | 0.87                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 11.21                                    | 1.19  | 0.45                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 3.14                                     | 1.45  | 1.82                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.51                                     | 0.16  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.97                                     | 0.13  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.97                                     | 0.13  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -14.84                                   | 33.18 | 54.05                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.97                                     | 0.13  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 13.90                                    | 0.72  | 0.61                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 284.70                                   | 15.52 | 6.30                    |                                  |
|                 | HTZ66261                     | 01/22/02        | 1                                 | 1.5                | 1.0                              | Actinium-227     | 0.38                                     | 0.18  | 0.32                    | 1.74                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.37                                     | 0.28  | 0.44                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 12.26                                    | 1.22  | 0.43                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.83                                     | 0.86  | 1.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.35                                     | 0.11  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.96                                     | 0.12  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.96                                     | 0.12  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -9.56                                    | 16.87 | 27.50                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.96                                     | 0.12  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 2.46                                     | 0.28  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 49.02                                    | 4.43  | 3.21                    |                                  |
| HTZ66262        | HTZ66262                     | 01/22/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 3.73                                     | 0.29  | 0.45                    | 10.48                            |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 1.01                                     | 0.55  | 0.85                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.02                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.97                                     | 1.02  | 0.50                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 3.83                                     | 1.24  | 2.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 5.65                                     | 0.21  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.25                                     | 0.13  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.25                                     | 0.13  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -93.76                                   | 36.80 | 53.97                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.25                                     | 0.13  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 14.53                                    | 0.74  | 0.66                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 271.90                                   | 14.49 | 6.37                    |                                  |
|                 | HTZ66263                     | 01/22/02        | 0.5                               | 1.0                | 0.5                              | Actinium-227     | 0.49                                     | 0.15  | 0.26                    | 1.46                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.08                                     | 0.24  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.02                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 11.58                                    | 1.08  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.69                                     | 0.81  | 1.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.11                                     | 0.13  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.03                                     | 0.11  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.03                                     | 0.11  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 10.23                                    | 16.08 | 25.35                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.03                                     | 0.11  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 2.02                                     | 0.25  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 38.43                                    | 3.82  | 2.90                    |                                  |



**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of Ratios <sup>5</sup> Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| HTZ66264        | HTZ66264                     | 01/22/02        | 0                                  | 0.5                |                                  | Actinium-227     | 0.06                                     | 0.19  | 0.28                    | 0.31                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.19  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.04                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 9.05                                     | 0.91  | 0.37                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.06                                     | 0.78  | 1.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.60                                     | 0.14  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.90                                     | 0.11  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 2.06                                     | 0.81  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 3.33                                     | 1.07  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.98                                     | 0.51  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.39                                     | 0.22  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.13                                     | 1.77  | 2.32                    |                                  |
| HTZ66265        | HTZ66265                     | 01/23/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.27                                     | 0.19  | 0.29                    | 0.39                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.03                                     | 0.11  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.07                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.68                                    | 1.15  | 0.44                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.24                                     | 0.81  | 1.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.42                                     | 0.14  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.07                                     | 0.12  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.69                                     | 0.54  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 3.43                                     | 0.82  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.12                                     | 0.41  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.28                                     | 0.17  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 5.01                                     | 1.40  | 1.59                    |                                  |
|                 | HTZ66266                     | 01/23/02        | 0.5                                | 1.0                | 0.5                              | Actinium-227     | 0.08                                     | 0.17  | 0.25                    | 0.09                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.05                                     | 0.10  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.06                                    | 1.07  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.09                                    | 0.72  | 1.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.77                                     | 0.12  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.83                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.74                                     | 0.32  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.50                                     | 0.64  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.21                                     | 0.41  | 0.08                    |                                  |
| HTZ66267        | HTZ66267                     | 01/23/02        | 0                                  | 0.5                | 0.0                              | Uranium-235      | 0.36                                     | 0.27  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.84                                     | 1.42  | 1.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Actinium-227     | 0.42                                     | 0.17  | 0.27                    | 1.13                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.10                                     | 0.12  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.57                                     | 0.06  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.01                                    | 0.97  | 0.40                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.01                                    | 0.80  | 1.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 5.42                                     | 0.18  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.02                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.23                                     | 0.46  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 5.41                                     | 1.12  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.26                                     | 0.43  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 1.18                                     | 0.19  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 21.42                                    | 2.22  | 1.58                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| HTZ66267        | HTZ66268                     | 01/23/02        | 0.5                               | 1.0                | 0.5                              | Actinium-227     | 0.20                                     | 0.15  | 0.24                    | 0.05                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.01                                    | 0.09  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.05                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 14.59                                    | 1.29  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.09                                     | 0.64  | 1.00                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.54                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.01                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.07                                     | 0.41  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.05                                     | 0.57  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.89                                     | 0.35  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.13                                     | 0.13  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.22                                     | 1.09  | 1.22                    |                                  |
|                 | HTZ66269                     | 01/23/02        | 1                                 | 1.5                | 1.0                              | Actinium-227     | 0.11                                     | 0.14  | 0.21                    | 0.05                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.09  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.04                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 15.15                                    | 1.27  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.11                                     | 0.61  | 0.96                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.61                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.84                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.34                                     | 0.46  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.28                                     | 0.62  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.77                                     | 0.33  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.05                                     | 0.13  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.65                                     | 1.12  | 1.22                    |                                  |
|                 | HTZ66270                     | 01/23/02        | 1.5                               | 2.0                | 1.5                              | Actinium-227     | 0.19                                     | 0.15  | 0.23                    | 0.06                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.09  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 16.73                                    | 1.40  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.02                                     | 0.67  | 1.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.42                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.97                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.29                                     | 0.46  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.29                                     | 0.63  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.90                                     | 0.36  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.14                                     | 0.15  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.18                                     | 1.32  | 1.21                    |                                  |
| HTZ66271        | HTZ66271                     | 01/23/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.29                                     | 0.23  | 0.35                    | 1.15                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.02                                    | 0.14  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.30                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.44                                     | 1.17  | 0.49                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.10                                    | 1.00  | 1.52                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 5.60                                     | 0.20  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.03                                     | 0.12  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.64                                     | 0.52  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 6.81                                     | 1.34  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.28                                     | 0.44  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.60                                     | 0.33  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 8.56                                     | 2.02  | 1.94                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of Ratios Value <sup>5</sup> |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| HTZ66271        | HTZ66272                     | 01/23/02        | 0.5                               | 1.0                | 0.5                              | Actinium-227     | 0.18                                     | 0.19  | 0.28                    | 0.17                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.21                                     | 0.11  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.54                                     | 1.02  | 0.41                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.11                                     | 0.80  | 1.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.01                                     | 0.13  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.06                                     | 0.12  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.34                                     | 0.47  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.58                                     | 0.83  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.21                                     | 0.42  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.32                                     | 0.20  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 4.08                                     | 1.54  | 1.52                    |                                  |
|                 | HTZ66273                     | 01/23/02        | 1                                 | 1.5                | 1.0                              | Actinium-227     | 0.18                                     | 0.17  | 0.26                    | 0.03                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.11                                     | 0.10  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.02                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 8.96                                     | 0.99  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.57                                     | 0.70  | 1.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.27                                     | 0.10  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.88                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.24                                     | 0.46  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.12                                     | 0.61  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.40                                     | 0.24  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.19                                     | 0.15  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.53                                     | 1.18  | 1.33                    |                                  |
| HTZ66274        | HTZ66274                     | 01/23/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.20                                     | 0.18  | 0.27                    | 0.44                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.07                                     | 0.11  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.03                                    | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 11.46                                    | 1.10  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.29                                     | 0.77  | 1.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.73                                     | 0.14  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.02                                     | 0.10  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.66                                     | 0.54  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.64                                     | 0.88  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.18                                     | 0.43  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.21                                     | 0.22  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 5.47                                     | 1.46  | 1.48                    |                                  |
|                 | HTZ66275                     | 01/23/02        | 0.5                               | 1.0                | 0.5                              | Actinium-227     | 0.16                                     | 0.19  | 0.26                    | 0.16                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.10                                     | 0.11  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.67                                     | 0.98  | 0.39                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.14                                     | 0.78  | 1.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.68                                     | 0.14  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.07                                     | 0.11  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.14                                     | 0.40  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.68                                     | 0.81  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.03                                     | 0.36  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.29                                     | 0.19  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.26                                     | 1.19  | 1.50                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| HTZ66274        | HTZ66276                     | 01/23/02        | 1                                 | 1.5                | 1.0                              | Actinium-227     | 0.21                                     | 0.16  | 0.29                    | 0.16                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.08                                     | 0.11  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 8.64                                     | 0.97  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.55                                     | 0.72  | 1.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.81                                     | 0.12  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.96                                     | 0.11  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.37                                     | 0.45  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.65                                     | 0.81  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.61                                     | 0.27  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.21                                     | 0.15  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.68                                     | 1.28  | 1.42                    |                                  |
|                 | HTZ66277                     | 01/23/02        | 1.5                               | 2.0                | 1.5                              | Actinium-227     | 0.25                                     | 0.20  | 0.31                    | 0.13                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.11                                     | 0.12  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.37                                     | 1.05  | 0.42                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.37                                    | 0.88  | 1.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.24                                     | 0.14  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.94                                     | 0.11  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.39                                     | 0.47  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.05                                     | 0.74  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.97                                     | 0.37  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.20                                     | 0.17  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 4.27                                     | 1.47  | 1.67                    |                                  |
|                 | HTZ66278                     | 01/23/02        | 2                                 | 2.5                | 2.0                              | Actinium-227     | 0.24                                     | 0.14  | 0.22                    | 0.24                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 11.65                                    | 0.95  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.02                                    | 0.61  | 0.92                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.24                                     | 0.12  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.06                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.32                                     | 0.64  | 0.43                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 4.71                                     | 1.35  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.82                                     | 0.46  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.26                                     | 0.16  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.63                                     | 0.56  | 0.63                    |                                  |
|                 | HTZ66279                     | 01/23/02        | 2.5                               | 3.0                | 2.5                              | Actinium-227     | 0.29                                     | 0.14  | 0.23                    | 0.15                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 12.35                                    | 1.00  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.39                                     | 0.56  | 0.87                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.42                                     | 0.12  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.02                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.97                                     | 0.78  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.47                                     | 1.09  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.27                                     | 0.59  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.26                                     | 0.14  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.15                                     | 0.61  | 0.62                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| HTZ66280        | HTZ66280                     | 01/23/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.24                                     | 0.15  | 0.24                    | 1.11                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.65                                    | 0.93  | 0.33                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.60                                     | 0.61  | 0.94                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 4.64                                     | 0.15  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.10                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.86                                     | 0.74  | 0.39                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 7.00                                     | 1.72  | 0.39                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.01                                     | 0.49  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.27                                     | 0.15  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 4.90                                     | 0.89  | 0.63                    |                                  |
|                 | HTZ66281                     | 01/23/02        | 0.5                                | 1.0                | 0.5                              | Actinium-227     | 0.32                                     | 0.25  | 0.41                    | 0.30                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.08  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.73                                    | 1.24  | 0.55                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 1.09                                     | 1.03  | 1.67                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 5.29                                     | 0.20  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.15                                     | 0.14  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 2.10                                     | 0.75  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 5.03                                     | 1.29  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.00                                     | 0.47  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.57                                     | 0.41  | 0.39                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 5.46                                     | 1.41  | 1.15                    |                                  |
|                 | HTZ66282                     | 01/23/02        | 1                                  | 1.5                | 1.0                              | Actinium-227     | 0.39                                     | 0.12  | 0.19                    | 0.06                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.04                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 15.19                                    | 1.10  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.10                                     | 0.50  | 0.75                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.56                                     | 0.09  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.99                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.57                                     | 0.63  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.35                                     | 0.78  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.67                                     | 0.37  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.17                                     | 0.15  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.75                                     | 0.44  | 0.52                    |                                  |
| HTZ66299        | HTZ66299                     | 01/29/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.06                                     | 0.09  | 0.14                    | 0.24                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.06                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 4.67                                     | 0.43  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.09                                     | 0.42  | 0.63                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.96                                     | 0.12  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.39                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.39                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -0.12                                    | 2.91  | 4.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.39                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.13                                     | 0.11  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.95                                     | 0.44  | 0.40                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| HTZ66299        | HTZ66300                     | 01/29/02        | 0.5                                | 1.0                | 0.5                              | Actinium-227     | 0.46                                     | 0.30  | 0.49                    | 4.09                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.01                                    | 0.10  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.20                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 6.21                                     | 0.99  | 0.85                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -1.25                                    | 1.61  | 2.34                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 64.09                                    | 1.72  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.45                                     | 0.11  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.45                                     | 0.11  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 9.47                                     | 10.07 | 15.39                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.45                                     | 0.11  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.34                                     | 0.35  | 0.52                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.60                                     | 1.15  | 1.49                    |                                  |
|                 | HTZ66301                     | 01/29/02        | 1                                  | 1.5                | 1.0                              | Actinium-227     | 0.12                                     | 0.16  | 0.25                    | 0.83                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.07                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.07                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 8.84                                     | 0.81  | 0.39                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.36                                    | 0.69  | 1.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 14.85                                    | 0.42  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.55                                     | 0.07  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.55                                     | 0.07  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -2.08                                    | 5.59  | 8.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.55                                     | 0.07  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.25                                     | 0.18  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.72                                     | 0.80  | 0.78                    |                                  |
| HTZ66302        | HTZ66302                     | 01/29/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.27                                     | 0.09  | 0.15                    | 0.21                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 2.48                                     | 0.30  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.31                                     | 0.41  | 0.62                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.61                                     | 0.11  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.03                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.03                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 3.78                                     | 3.04  | 4.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.03                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.23                                     | 0.09  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.69                                     | 0.49  | 0.38                    |                                  |
| HTZ66303        | HTZ66303                     | 01/29/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.23                                     | 0.12  | 0.19                    | 0.51                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.04                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.09                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.49                                    | 0.92  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.23                                     | 0.51  | 0.79                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.24                                     | 0.09  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.03                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.03                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 3.83                                     | 4.06  | 6.56                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.03                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.82                                     | 0.13  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 12.94                                    | 1.24  | 0.64                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| HTZ66303        | HTZ66304                     | 01/29/02        | 0.5                                | 1.0                | 0.5                              | Actinium-227     | 0.23                                     | 0.12  | 0.20                    | 0.18                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.02                                    | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.51                                    | 0.95  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.02                                     | 0.54  | 0.82                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.21                                     | 0.09  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.90                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.90                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.87                                     | 4.21  | 6.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.90                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.47                                     | 0.14  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 6.52                                     | 0.90  | 0.60                    |                                  |
| HTZ66305        | HTZ66305                     | 01/29/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.42                                     | 0.18  | 0.29                    | 2.36                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.08                                     | 0.09  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 1.11                                     | 0.09  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.99                                    | 1.05  | 0.39                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.86                                     | 0.83  | 1.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 4.89                                     | 0.17  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.11                                     | 0.10  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.11                                     | 0.10  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -1.13                                    | 8.13  | 11.77                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.11                                     | 0.10  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 4.22                                     | 0.30  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 78.23                                    | 4.85  | 1.17                    |                                  |
|                 | HTZ66306                     | 01/29/02        | 0.5                                | 1.0                | 0.5                              | Actinium-227     | 0.22                                     | 0.16  | 0.27                    | 0.26                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.03                                     | 0.06  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.06                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.52                                    | 1.08  | 0.42                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.59                                     | 0.73  | 1.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.12                                     | 0.13  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.16                                     | 0.11  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.16                                     | 0.11  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.33                                     | 5.19  | 8.37                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.16                                     | 0.11  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.42                                     | 0.19  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 6.47                                     | 1.00  | 0.83                    |                                  |
|                 | HTZ66307                     | 01/29/02        | 1                                  | 1.5                | 1.0                              | Actinium-227     | 0.15                                     | 0.12  | 0.19                    | 0.12                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.03                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.08                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 15.22                                    | 1.18  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.23                                     | 0.53  | 0.82                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.08                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.80                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.80                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.40                                     | 4.08  | 6.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.80                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.21                                     | 0.11  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.66                                     | 0.76  | 0.59                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| HTZ66321        | HTZ66321                     | 02/07/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.07                                     | 0.09  | 0.13                    | 0.51                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.11                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 3.24                                     | 0.35  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.14                                     | 0.39  | 0.59                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 4.20                                     | 0.13  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.25                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.52                                     | 0.32  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 4.27                                     | 1.09  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.34                                     | 0.25  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.27                                     | 0.09  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.55                                     | 0.54  | 0.35                    |                                  |
| HTZ66322        | HTZ66322                     | 02/07/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.51                                     | 0.13  | 0.23                    | 3.78                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.12                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.05                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 4.91                                     | 0.55  | 0.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.30                                     | 0.74  | 1.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 20.15                                    | 0.55  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.43                                     | 0.06  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 2.23                                     | 0.67  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 10.21                                    | 1.96  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.44                                     | 0.30  | 0.39                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 1.15                                     | 0.18  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 16.73                                    | 1.47  | 0.76                    |                                  |
|                 | HTZ66323                     | 02/07/02        | 0.5                               | 1.0                | 0.5                              | Actinium-227     | 0.62                                     | 0.15  | 0.25                    | 1.63                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.11                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.07                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 4.60                                     | 0.54  | 0.41                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.08                                    | 0.77  | 1.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 22.26                                    | 0.61  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.50                                     | 0.07  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.65                                     | 0.59  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 11.99                                    | 2.32  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.57                                     | 0.32  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 1.20                                     | 0.19  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 18.07                                    | 1.54  | 0.76                    |                                  |
| HTZ69417        | HTZ69417                     | 03/19/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | -0.79                                    | 0.92  | 1.30                    | 99.77                            |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.45                                     | 0.33  | 0.39                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.11                                     | 0.11  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 8.50                                     | 2.18  | 2.44                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -11.22                                   | 4.42  | 6.36                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 501.45                                   | 13.35 | 0.53                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.07                                     | 0.29  | 0.54                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.07                                     | 0.29  | 0.54                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 33.71                                    | 26.40 | 41.66                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.07                                     | 0.29  | 0.54                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -1.05                                    | 1.93  | 1.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | -0.74                                    | 2.83  | 4.12                    |                                  |



**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error  | Detection Limit (pCi/g) | Sum of Ratios Value <sup>5</sup> |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|--------|-------------------------|----------------------------------|
| HTZ69418        | HTZ69418                     | 03/19/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 522.00                                   | 32.06  | 11.55                   | 793.48                           |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -7.32                                    | 1.93   | 2.56                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -1.93                                    | 1.09   | 1.53                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 197.30                                   | 14.36  | 14.74                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 141.60                                   | 27.19  | 39.34                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 4.18                                     | 2.46   | 3.68                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 2252.00                                  | 73.55  | 3.88                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 2252.00                                  | 73.55  | 3.88                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1713.00                                  | 353.90 | 240.30                  |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 2252.00                                  | 73.55  | 3.88                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -5.59                                    | 11.09  | 7.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 54.36                                    | 16.63  | 23.51                   |                                  |
|                 |                              |                 |                                    |                    |                                  |                  |                                          |        |                         |                                  |
| HTZ69432        | HTZ69432                     | 03/20/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | -2.54                                    | 1.94   | 2.71                    | 115.75                           |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.36                                    | 3.30   | 5.38                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.64                                     | 0.26   | 0.38                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 0.80                                     | 2.70   | 4.54                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -1.30                                    | 10.15  | 13.02                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 578.70                                   | 15.54  | 1.01                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 2.10                                     | 0.73   | 1.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 2.10                                     | 0.73   | 1.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -49.73                                   | 167.60 | 271.20                  |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 2.10                                     | 0.73   | 1.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.23                                    | 4.03   | 2.92                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | -5.00                                    | 22.29  | 36.23                   |                                  |
|                 |                              |                 |                                    |                    |                                  |                  |                                          |        |                         |                                  |
| HTZ69436        | HTZ69436                     | 03/21/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.41                                     | 0.10   | 0.18                    | 0.81                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.03                                     | 0.04   | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02   | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 9.76                                     | 0.82   | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.09                                    | 0.59   | 0.88                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 6.49                                     | 0.22   | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.99                                     | 0.08   | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.99                                     | 0.08   | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 3.04                                     | 4.30   | 6.44                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.99                                     | 0.08   | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.49                                     | 0.14   | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 4.62                                     | 0.83   | 0.62                    |                                  |
|                 |                              |                 |                                    |                    |                                  |                  |                                          |        |                         |                                  |
| HTZ69437        | HTZ69437                     | 03/21/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.16                                     | 0.11   | 0.19                    | 0.68                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.04   | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02   | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 9.28                                     | 0.82   | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.32                                     | 0.56   | 0.87                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 5.94                                     | 0.20   | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.86                                     | 0.07   | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.86                                     | 0.07   | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.39                                     | 3.78   | 6.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.86                                     | 0.07   | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.30                                     | 0.12   | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.94                                     | 0.65   | 0.59                    |                                  |
|                 |                              |                 |                                    |                    |                                  |                  |                                          |        |                         |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| HTZ69451        | HTZ69451                     | 04/12/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 3.02                                     | 0.41  | 0.62                    | 11.06                            |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.12                                    | 0.39  | 0.55                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.05                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 1.23                                     | 0.70  | 0.76                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 1.66                                     | 1.79  | 2.72                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 50.67                                    | 1.40  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 6.24                                     | 0.29  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 6.24                                     | 0.29  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -1.61                                    | 22.96 | 35.30                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 6.24                                     | 0.29  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 1.79                                     | 0.66  | 1.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 22.66                                    | 4.02  | 4.15                    |                                  |
| HTZ69452        | HTZ69452                     | 04/12/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 1.93                                     | 0.22  | 0.42                    | 12.03                            |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.30  | 0.42                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.03                                    | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 1.59                                     | 0.59  | 0.59                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 1.01                                     | 1.35  | 2.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 54.23                                    | 1.47  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 8.03                                     | 0.31  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 8.03                                     | 0.31  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 18.59                                    | 21.78 | 26.68                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 8.03                                     | 0.31  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 1.93                                     | 0.54  | 1.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 17.82                                    | 2.73  | 3.18                    |                                  |
| HTZ69453        | HTZ69453                     | 04/12/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 1.42                                     | 0.18  | 0.34                    | 8.24                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.28                                     | 0.24  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 1.75                                     | 0.49  | 0.47                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 1.08                                     | 1.08  | 1.64                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 38.34                                    | 1.05  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 5.04                                     | 0.21  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 5.04                                     | 0.21  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 12.35                                    | 14.21 | 22.08                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 5.04                                     | 0.21  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 1.13                                     | 0.43  | 0.86                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 17.00                                    | 2.61  | 2.58                    |                                  |
| HTZ69501        | HTZ69501                     | 06/14/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.02                                     | 0.15  | 0.22                    | 0.37                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.05                                     | 0.09  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.07                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.72                                     | 0.92  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.32                                     | 0.67  | 1.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 4.00                                     | 0.16  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.95                                     | 0.09  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.34                                     | 0.68  | 0.47                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.38                                     | 1.18  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.57                                     | 0.43  | 0.47                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.17                                     | 0.29  | 0.49                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 5.68                                     | 1.49  | 1.24                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| HTZ70904        | HTZ70904                     | 10/28/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 2.26                                     | 0.15  | 0.20                    | 3.86                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.44                                     | 0.32  | 0.51                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 7.80                                     | 0.66  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 2.07                                     | 0.60  | 1.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.30                                     | 0.13  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.89                                     | 0.08  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.97                                     | 0.45  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 7.23                                     | 1.58  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.92                                     | 0.43  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 6.18                                     | 0.46  | 0.55                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 141.50                                   | 7.88  | 3.64                    |                                  |
|                 | HTZ70906                     | 10/28/02        | 1                                  | 1.5                |                                  | Actinium-227     | 0.65                                     | 0.09  | 0.16                    | 1.04                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.23                                     | 0.19  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 9.31                                     | 0.72  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.81                                     | 0.51  | 0.81                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.79                                     | 0.11  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.85                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.94                                     | 0.45  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 4.86                                     | 1.23  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.75                                     | 0.40  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 2.03                                     | 0.26  | 0.40                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 43.95                                    | 3.42  | 2.26                    |                                  |
| MIP60307        | MIP60307                     | 06/19/02        | 2.5                                | 3.0                |                                  | Actinium-227     | 0.00                                     | 0.00  | 0.52                    | 0.13                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 6.77                                     | 0.33  | 0.44                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 1.70                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.66                                     | 0.03  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.70                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.70                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 10.10                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.70                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.33                                     | 0.04  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 8.10                                     | 0.43  | 0.84                    |                                  |
| MIP60712        | MIP60712                     | 10/07/02        | 1                                  | 1.5                |                                  | Actinium-227     | 0.00                                     | 0.00  | 0.47                    | 0.09                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 0.00                                     | 0.00  | 1.55                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.70                                     | 0.26  | 1.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.57                                     | 0.04  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.49                                     | 0.03  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.49                                     | 0.03  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 3.38                                     | 1.28  | 5.80                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.49                                     | 0.03  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.19                                     | 0.04  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.51                                     | 0.20  | 0.62                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| PSC00135        | PSC00135                     | 05/22/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.22                                     | 0.09  | 0.15                    | 0.96                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.01                                    | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.90                                     | 0.48  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.09                                     | 0.52  | 0.79                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 4.78                                     | 0.17  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.92                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.92                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 6.59                                     | 3.83  | 5.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.92                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.09                                     | 0.23  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.07                                     | 0.58  | 0.47                    |                                  |
|                 | PSC00136                     | 05/22/02        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.00                                     | 0.00  | 0.61                    | 0.05                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 6.64                                     | 0.36  | 0.53                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 1.98                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.98                                     | 0.04  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.68                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.68                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 10.60                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.68                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.18                                     | 0.04  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.77                                     | 0.29  | 0.88                    |                                  |
|                 | PSC00137                     | 05/22/02        | 2                                 | 2.5                |                                  | Actinium-227     | 0.00                                     | 0.00  | 0.52                    | 0.01                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.01  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.14                                    | 0.46  | 0.51                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 1.71                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.33                                     | 0.03  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.56                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.56                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 9.61                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.56                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.00                                     | 0.00  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.97                                     | 0.21  | 0.76                    |                                  |
| PSC00138        | PSC00138                     | 05/22/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.39                                     | 0.14  | 0.22                    | 0.56                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.03                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 7.50                                     | 0.76  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.09                                     | 0.58  | 0.88                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.71                                     | 0.14  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 2.42                                     | 0.13  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 2.42                                     | 0.13  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.14                                     | 4.27  | 6.36                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 2.42                                     | 0.13  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.02                                     | 0.26  | 0.44                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.59                                     | 0.74  | 0.61                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| PSC00138        | PSC00151                     | 06/06/02        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.00                                     | 0.00  | 0.56                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.03                                     | 0.01  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 3.53                                     | 0.31  | 0.49                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 1.82                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.54                                     | 0.02  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.34                                     | 0.03  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.34                                     | 0.03  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 8.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.34                                     | 0.03  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.00                                     | 0.00  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.74                                     | 0.16  | 0.65                    |                                  |
|                 | PSC00152                     | 06/06/02        | 2.5                               | 3.0                |                                  | Actinium-227     | 0.34                                     | 0.21  | 0.29                    | 0.43                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.05                                     | 0.11  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.75                                    | 1.03  | 0.41                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.35                                    | 0.82  | 1.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 5.45                                     | 0.22  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.22                                     | 0.11  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.22                                     | 0.11  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -5.65                                    | 8.96  | 14.47                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.22                                     | 0.11  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.01                                    | 0.38  | 0.63                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 4.55                                     | 1.54  | 1.57                    |                                  |
|                 | PSC00153                     | 06/06/02        | 4                                 | 4.5                |                                  | Actinium-227     | 0.00                                     | 0.00  | 0.56                    | 0.02                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.03                                     | 0.01  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 4.61                                     | 0.28  | 0.49                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 1.84                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.56                                     | 0.03  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.68                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.68                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 9.77                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.68                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.12                                     | 0.03  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.33                                     | 0.22  | 0.81                    |                                  |
|                 | PSC00154                     | 06/06/02        | 4                                 | 4.5                |                                  | Actinium-227     | 0.00                                     | 0.00  | 0.62                    | 0.02                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.01  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.05                                     | 0.01  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 4.97                                     | 0.29  | 0.49                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 2.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.45                                     | 0.03  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.14                                     | 0.04  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.14                                     | 0.04  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 9.98                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.14                                     | 0.04  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.19                                     | 0.04  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.90                                     | 0.21  | 0.81                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| PSC00139        | PSC00139                     | 05/22/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.18                                     | 0.29  | 0.45                    | 1.18                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.04                                    | 0.11  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 9.32                                     | 1.45  | 0.75                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.77                                    | 1.24  | 1.82                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 4.54                                     | 0.25  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.90                                     | 0.17  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.90                                     | 0.17  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -2.24                                    | 9.03  | 14.49                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.90                                     | 0.17  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.79                                     | 0.76  | 0.93                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 7.56                                     | 1.69  | 1.50                    |                                  |
|                 | PSC00140                     | 05/22/02        | 0.5                                | 1.0                |                                  | Actinium-227     | 0.07                                     | 0.27  | 0.41                    | 0.90                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.03                                    | 0.11  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.04                                    | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 13.56                                    | 1.43  | 0.62                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 1.28                                     | 1.03  | 1.82                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 4.39                                     | 0.22  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.07                                     | 0.16  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.07                                     | 0.16  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -3.71                                    | 9.16  | 14.59                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.07                                     | 0.16  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 1.53                                     | 0.58  | 0.85                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 28.05                                    | 2.80  | 1.44                    |                                  |
|                 | PSC00141                     | 05/22/02        | 2.9                                | 3.4                |                                  | Actinium-227     | 0.00                                     | 0.00  | 0.62                    | 0.16                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 9.43                                     | 0.44  | 0.58                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 2.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.85                                     | 0.05  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.65                                     | 0.03  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.65                                     | 0.03  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 5.40                                     | 1.59  | 7.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.65                                     | 0.03  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.21                                     | 0.04  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 4.07                                     | 0.30  | 0.98                    |                                  |
| PSC00142        | PSC00142                     | 05/22/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.00                                     | 0.00  | 0.64                    | 0.26                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.09                                     | 0.01  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 9.31                                     | 0.43  | 0.47                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 2.01                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.77                                     | 0.04  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.91                                     | 0.04  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.91                                     | 0.04  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 12.40                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.91                                     | 0.04  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.62                                     | 0.05  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 14.68                                    | 0.71  | 1.03                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of Ratios Value <sup>5</sup> |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| PSC00142        | PSC00143                     | 05/22/02        | 0.5                                | 1.0                |                                  | Actinium-227     | 0.00                                     | 0.00  | 0.60                    | 0.18                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 7.60                                     | 0.39  | 0.56                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 2.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.31                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.67                                     | 0.03  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.67                                     | 0.03  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 3.46                                     | 1.49  | 6.79                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.67                                     | 0.03  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.21                                     | 0.04  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 5.77                                     | 0.36  | 0.92                    |                                  |
|                 | PSC00144                     | 05/22/02        | 3                                  | 3.5                |                                  | Actinium-227     | 0.00                                     | 0.00  | 0.77                    | 0.04                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 6.59                                     | 0.41  | 0.72                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 2.58                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.44                                     | 0.05  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.66                                     | 0.04  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.66                                     | 0.04  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 14.00                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.66                                     | 0.04  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.11                                     | 0.05  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.27                                     | 0.31  | 1.12                    |                                  |
| PSC00145        | PSC00145                     | 05/22/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.20                                     | 0.28  | 0.42                    | 2.18                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.06                                     | 0.12  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.54                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.05                                    | 1.23  | 0.64                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 1.10                                     | 1.63  | 2.00                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 7.27                                     | 0.29  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.13                                     | 0.14  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.13                                     | 0.14  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -2.40                                    | 11.03 | 16.19                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.13                                     | 0.14  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 2.41                                     | 0.58  | 0.88                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 47.30                                    | 3.97  | 1.61                    |                                  |
|                 | PSC00146                     | 05/22/02        | 0.5                                | 1.0                |                                  | Actinium-227     | 0.00                                     | 0.00  | 0.87                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 9.29                                     | 0.54  | 0.88                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 2.84                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.88                                     | 0.05  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.86                                     | 0.05  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.86                                     | 0.05  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 14.10                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.86                                     | 0.05  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.00                                     | 0.00  | 0.47                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.09                                     | 0.30  | 1.19                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| PSC00145        | PSC00147                     | 05/22/02        | 2                                 | 2.5                |                                  | Actinium-227     | 0.00                                     | 0.00  | 0.57                    | 0.01                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.02                                    | 0.45  | 0.50                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 1.79                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.34                                     | 0.03  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.80                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.80                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 9.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.80                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.00                                     | 0.00  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.79                                     | 0.20  | 0.78                    |                                  |
| PSC00148        | PSC00148                     | 05/23/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.05                                     | 0.15  | 0.23                    | 0.43                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.07                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.59                                     | 0.92  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.87                                     | 0.66  | 1.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 4.75                                     | 0.18  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.01                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.01                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -3.08                                    | 4.83  | 6.98                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.01                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.01                                     | 0.29  | 0.48                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.57                                     | 0.81  | 0.70                    |                                  |
|                 | PSC00149                     | 05/23/02        | 1                                 | 1.5                |                                  | Actinium-227     | 0.00                                     | 0.00  | 0.57                    | 0.37                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.02  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.68                                     | 0.22  | 0.67                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 2.45                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 7.07                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.35                                     | 0.03  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.35                                     | 0.03  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.03                                     | 1.79  | 8.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.35                                     | 0.03  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.32                                     | 0.05  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 5.86                                     | 0.38  | 1.11                    |                                  |
|                 | PSC00150                     | 05/23/02        | 2.5                               | 3.0                |                                  | Actinium-227     | 0.34                                     | 0.23  | 0.43                    | 0.56                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.04                                    | 0.10  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.03                                    | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.46                                     | 1.29  | 0.75                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.57                                     | 1.10  | 1.93                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 9.02                                     | 0.34  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.98                                     | 0.14  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.98                                     | 0.14  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 11.02                                    | 9.92  | 13.20                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.98                                     | 0.14  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.26                                     | 0.53  | 0.90                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 8.45                                     | 1.29  | 1.38                    |                                  |



**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| PSC00176        | PSC00176                     | 06/25/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.39                                     | 0.18  | 0.29                    | 1.34                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.04                                     | 0.06  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.05                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 13.24                                    | 1.16  | 0.44                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.75                                     | 0.76  | 1.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 8.43                                     | 0.28  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.44                                     | 0.12  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.44                                     | 0.12  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 7.74                                     | 7.13  | 8.50                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.44                                     | 0.12  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.44                                     | 0.28  | 0.57                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 7.01                                     | 1.17  | 0.81                    |                                  |
| PSC00177        | PSC00177                     | 06/25/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.01                                     | 0.30  | 0.44                    | 1.31                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.10                                     | 0.10  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.56                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 10.61                                    | 1.46  | 0.72                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.48                                     | 1.26  | 1.99                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 4.68                                     | 0.25  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.03                                     | 0.15  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.03                                     | 0.15  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 5.43                                     | 9.37  | 14.36                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.03                                     | 0.15  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.75                                     | 0.58  | 0.99                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 13.67                                    | 2.15  | 1.45                    |                                  |
| PSC00205        | PSC00205                     | 07/22/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.00                                     | 0.00  | 1.40                    | 1.22                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.07                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 7.81                                     | 0.67  | 1.55                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 4.67                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 4.02                                     | 0.10  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.97                                     | 0.07  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.97                                     | 0.07  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 14.12                                    | 3.54  | 15.40                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.97                                     | 0.07  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.00                                     | 0.00  | 0.85                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 4.87                                     | 0.57  | 2.14                    |                                  |
| PSC00206        | PSC00206                     | 07/22/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.00                                     | 0.00  | 0.57                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.10                                     | 0.01  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 5.43                                     | 0.32  | 0.60                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 1.83                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.20                                     | 0.03  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.62                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.62                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 9.68                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.62                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.00                                     | 0.00  | 0.33                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.17                                     | 0.19  | 0.79                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| PSC00207        | PSC00207                     | 07/22/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.00                                     | 0.00  | 0.56                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 7.63                                     | 0.39  | 0.58                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 1.78                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.95                                     | 0.03  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.77                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.77                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 9.49                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.77                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.16                                     | 0.03  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.04                                     | 0.19  | 0.80                    |                                  |
| PSC00208        | PSC00208                     | 07/22/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.00                                     | 0.00  | 0.57                    | 0.27                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.64                                     | 0.19  | 0.43                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 1.84                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.48                                     | 0.03  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.29                                     | 0.04  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.29                                     | 0.04  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.51                                     | 1.29  | 5.93                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.29                                     | 0.04  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.11                                     | 0.03  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.47                                     | 0.20  | 0.80                    |                                  |
| PSC00209        | PSC00209                     | 07/22/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.00                                     | 0.00  | 0.55                    | 0.21                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.06                                     | 0.01  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 3.34                                     | 0.23  | 0.49                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 1.80                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.59                                     | 0.03  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.66                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.66                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.83                                     | 1.27  | 5.81                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.66                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.00                                     | 0.00  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.08                                     | 0.21  | 0.78                    |                                  |
| PSC00212        | PSC00212                     | 07/22/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.00                                     | 0.00  | 0.65                    | 0.39                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.05                                     | 0.01  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 7.07                                     | 0.35  | 0.62                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 2.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.14                                     | 0.06  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.14                                     | 0.04  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.14                                     | 0.04  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.20                                     | 1.51  | 6.94                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.14                                     | 0.04  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.00                                     | 0.00  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.88                                     | 0.29  | 0.94                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| PSC00215        | PSC00215                     | 07/23/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.00                                     | 0.00  | 0.59                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.01  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.03                                     | 0.01  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 8.70                                     | 0.46  | 0.76                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 1.89                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.75                                     | 0.02  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.62                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.62                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 9.63                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.62                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.13                                     | 0.03  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.49                                     | 0.20  | 0.79                    |                                  |
|                 |                              |                 |                                    |                    |                                  |                  |                                          |       |                         |                                  |
| PSC00216        | PSC00216                     | 07/23/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.00                                     | 0.00  | 0.53                    | 0.24                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.14                                     | 0.01  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 6.20                                     | 0.32  | 0.54                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 1.75                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.96                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.69                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.69                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.24                                     | 1.27  | 5.86                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.69                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.27                                     | 0.03  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.77                                     | 0.26  | 0.80                    |                                  |
|                 |                              |                 |                                    |                    |                                  |                  |                                          |       |                         |                                  |
| PSC00217        | PSC00217                     | 07/23/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.00                                     | 0.00  | 0.54                    | 0.23                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.12                                     | 0.01  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 6.94                                     | 0.35  | 0.53                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 1.79                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.59                                     | 0.03  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.66                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.66                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 3.67                                     | 1.27  | 5.73                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.66                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.00                                     | 0.00  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.87                                     | 0.27  | 0.79                    |                                  |
|                 |                              |                 |                                    |                    |                                  |                  |                                          |       |                         |                                  |
| PSC00218        | PSC00218                     | 07/23/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.00                                     | 0.00  | 0.52                    | 0.20                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.05                                     | 0.01  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 6.53                                     | 0.34  | 0.55                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 1.68                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.36                                     | 0.03  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.63                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.63                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.78                                     | 1.24  | 5.64                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.63                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.18                                     | 0.03  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.86                                     | 0.23  | 0.75                    |                                  |
|                 |                              |                 |                                    |                    |                                  |                  |                                          |       |                         |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| PSC00220        | PSC00220                     | 07/24/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.00                                     | 0.00  | 0.60                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 9.56                                     | 0.47  | 0.55                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 1.85                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.98                                     | 0.03  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.63                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.63                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 9.95                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.63                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.00                                     | 0.00  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.38                                     | 0.20  | 0.82                    |                                  |
| PSC00233        | PSC00233                     | 10/23/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.00                                     | 0.00  | 0.88                    | 0.03                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.12                                     | 0.02  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 7.47                                     | 0.48  | 0.49                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 2.92                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.75                                     | 0.06  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.95                                     | 0.04  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.95                                     | 0.04  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 15.30                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.95                                     | 0.04  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.00                                     | 0.00  | 0.49                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.96                                     | 0.23  | 0.96                    |                                  |
|                 | PSC00234                     | 10/23/02        | 1                                  | 1.5                |                                  | Actinium-227     | 0.00                                     | 0.00  | 0.92                    | 0.03                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 7.27                                     | 0.47  | 0.46                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 2.90                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.38                                     | 0.05  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.99                                     | 0.04  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.99                                     | 0.04  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 15.20                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.99                                     | 0.04  | 0.16                    |                                  |
| PSC00235        | PSC00235                     | 10/23/02        | 0                                  | 0.5                | 0.0                              | Uranium-235      | 0.00                                     | 0.00  | 0.48                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.81                                     | 0.26  | 0.97                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Actinium-227     | 0.00                                     | 0.00  | 0.88                    | 0.02                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 7.09                                     | 0.62  | 0.44                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 2.75                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.19                                     | 0.05  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.96                                     | 0.04  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.96                                     | 0.04  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 14.90                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.96                                     | 0.04  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.00                                     | 0.00  | 0.45                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.57                                     | 0.21  | 0.91                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| PSC00235        | PSC00236                     | 10/23/02        | 1                                  | 1.5                |                                  | Actinium-227     | 0.00                                     | 0.00  | 0.89                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 5.52                                     | 0.45  | 0.54                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 2.78                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.77                                     | 0.05  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.82                                     | 0.04  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.82                                     | 0.04  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 14.80                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.82                                     | 0.04  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.00                                     | 0.00  | 0.46                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.83                                     | 0.19  | 0.92                    |                                  |
| SLD02670        | SLD02670                     | 08/25/99        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.37                                     | 0.19  | 0.29                    | 1.26                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.04                                    | 0.26  | 0.41                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 7.89                                     | 1.14  | 0.34                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.04                                     | 0.76  | 1.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.76                                     | 0.17  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.80                                     | 0.12  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.98                                     | 0.46  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 6.28                                     | 1.48  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.95                                     | 0.44  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 1.28                                     | 0.24  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 21.18                                    | 3.48  | 4.76                    |                                  |
|                 | SLD02747                     | 08/25/99        | 3                                  | 3.5                |                                  | Actinium-227     | 0.25                                     | 0.16  | 0.26                    | 0.32                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.09                                     | 0.20  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 9.44                                     | 1.25  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.17                                     | 0.67  | 1.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.80                                     | 0.17  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.96                                     | 0.11  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 2.39                                     | 0.88  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 6.22                                     | 1.67  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.46                                     | 0.66  | 0.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.25                                     | 0.16  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.00                                     | 1.82  | 4.35                    |                                  |
|                 | SLD02824                     | 08/25/99        | 5                                  | 5.5                |                                  | Actinium-227     | 0.15                                     | 0.15  | 0.24                    | 0.02                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.14                                     | 0.20  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 13.75                                    | 1.72  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.43                                    | 0.62  | 1.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.21                                     | 0.14  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.00                                     | 0.12  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.17                                     | 0.52  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.96                                     | 0.70  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.08                                     | 0.49  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.34                                     | 0.18  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.43                                     | 1.94  | 4.60                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD02671        | SLD02671                     | 08/25/99        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.41                                     | 0.16  | 0.28                    | 0.51                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.16                                     | 0.23  | 0.37                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.06                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 10.18                                    | 1.36  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.20                                     | 0.81  | 1.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.98                                     | 0.23  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.98                                     | 0.12  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.67                                     | 0.36  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 3.87                                     | 1.03  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.60                                     | 0.34  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.30                                     | 0.19  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 7.13                                     | 2.40  | 4.80                    |                                  |
|                 | SLD02748                     | 08/25/99        | 3                                  | 3.5                |                                  | Actinium-227     | 0.17                                     | 0.16  | 0.26                    | 0.08                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.16                                     | 0.22  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.44                                    | 1.50  | 0.37                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.29                                     | 0.70  | 1.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.68                                     | 0.17  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.96                                     | 0.12  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.01                                     | 0.49  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.97                                     | 0.72  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.92                                     | 0.46  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.10                                     | 0.24  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 5.34                                     | 2.11  | 4.91                    |                                  |
|                 | SLD02825                     | 08/25/99        | 5                                  | 5.5                |                                  | Actinium-227     | 0.27                                     | 0.15  | 0.22                    | 0.07                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.17                                     | 0.17  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 15.64                                    | 1.93  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.06                                    | 0.62  | 0.94                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.55                                     | 0.11  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.04                                     | 0.11  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.37                                     | 0.64  | 0.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.90                                     | 0.77  | 0.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.87                                     | 0.75  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.12                                     | 0.13  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.32                                     | 1.94  | 4.19                    |                                  |
| SLD02672        | SLD02672                     | 08/25/99        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.20                                     | 0.17  | 0.28                    | 0.72                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.05                                     | 0.25  | 0.39                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.02                                    | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 10.56                                    | 1.41  | 0.42                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.49                                     | 0.81  | 1.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.35                                     | 0.21  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.15                                     | 0.13  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.02                                     | 0.51  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 3.97                                     | 1.15  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.51                                     | 0.62  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.71                                     | 0.22  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 13.06                                    | 2.94  | 5.29                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup><br>(pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup><br>Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|---------------------------------------------|-------|-------------------------|-------------------------------------|
| SLD02672        | SLD02749                     | 08/25/99        | 2.5                               | 0.3                |                                  | Actinium-227     | 0.20                                        | 0.13  | 0.21                    | 0.02                                |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.03                                       | 0.17  | 0.26                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                        | 0.02  | 0.03                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 17.67                                       | 2.13  | 0.25                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.38                                        | 0.77  | 0.91                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.07                                        | 0.08  | 0.06                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.04                                        | 0.11  | 0.08                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.01                                        | 0.43  | 0.20                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.09                                        | 0.45  | 0.11                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.24                                        | 0.48  | 0.11                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.04                                        | 0.13  | 0.20                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.84                                        | 1.46  | 3.67                    |                                     |
|                 | SLD02826                     | 08/25/99        | 5                                 | 5.5                |                                  | Actinium-227     | 0.15                                        | 0.11  | 0.18                    | 0.01                                |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.07                                        | 0.15  | 0.24                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                        | 0.02  | 0.03                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 14.70                                       | 1.79  | 0.22                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.02                                       | 0.52  | 0.79                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.93                                        | 0.07  | 0.05                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.84                                        | 0.10  | 0.08                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.92                                        | 0.44  | 0.12                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.15                                        | 0.50  | 0.12                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.87                                        | 0.42  | 0.12                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.07                                        | 0.12  | 0.18                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.99                                        | 1.65  | 3.65                    |                                     |
| SLD02673        | SLD02673                     | 08/24/99        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.24                                        | 0.10  | 0.18                    | 0.36                                |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                        | 0.04  | 0.06                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                        | 0.02  | 0.03                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 12.24                                       | 1.36  | 0.33                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.44                                        | 0.59  | 0.93                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.21                                        | 0.17  | 0.06                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.16                                        | 0.11  | 0.08                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.10                                        | 0.56  | 0.34                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.49                                        | 1.09  | 0.15                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.01                                        | 0.51  | 0.15                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.29                                        | 0.19  | 0.20                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.22                                        | 0.72  | 4.06                    |                                     |
|                 | SLD02750                     | 08/24/99        | 3.5                               | 4.0                |                                  | Actinium-227     | 0.42                                        | 0.15  | 0.24                    | 0.12                                |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                        | 0.04  | 0.07                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                       | 0.02  | 0.03                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 11.38                                       | 1.35  | 0.34                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.58                                        | 0.62  | 1.00                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.14                                        | 0.13  | 0.06                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.15                                        | 0.12  | 0.10                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.55                                        | 0.65  | 0.27                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.05                                        | 0.97  | 0.27                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.64                                        | 0.65  | 0.14                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.16                                        | 0.14  | 0.19                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.40                                        | 0.72  | 3.79                    |                                     |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD02673        | SLD02827                     | 08/24/99        | 5                                 | 5.5                |                                  | Actinium-227     | 0.12                                     | 0.12  | 0.19                    | 0.02                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.08                                     | 0.15  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 16.02                                    | 1.95  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.13                                    | 0.56  | 0.84                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.07                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.89                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.50                                     | 0.61  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.32                                     | 0.57  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.21                                     | 0.54  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.06                                     | 0.11  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.53                                     | 1.83  | 4.11                    |                                  |
| SLD02674        | SLD02674                     | 08/25/99        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.19                                     | 0.16  | 0.26                    | 2.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.12                                    | 0.21  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.85                                    | 1.43  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.27                                     | 0.76  | 1.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.80                                     | 0.17  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.07                                     | 0.13  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.07                                     | 0.13  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 6.30                                     | 13.70 | 22.92                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.07                                     | 0.13  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.12                                     | 0.22  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 5.25                                     | 2.26  | 4.45                    |                                  |
|                 | SLD02751                     | 08/25/99        | 2.5                               | 4.0                |                                  | Actinium-227     | 0.00                                     | 0.13  | 0.21                    | 0.48                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.11                                     | 0.16  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 15.87                                    | 1.94  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.62                                     | 0.65  | 0.96                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.21                                     | 0.09  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.95                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.95                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -1.02                                    | 10.42 | 18.02                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.95                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.05                                     | 0.15  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.58                                     | 2.28  | 4.13                    |                                  |
|                 | SLD02828                     | 08/25/99        | 5                                 | 5.5                |                                  | Actinium-227     | 0.00                                     | 0.12  | 0.19                    | 0.43                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.14  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 16.22                                    | 1.96  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.11                                     | 0.51  | 0.79                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.99                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.94                                     | 0.10  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.94                                     | 0.10  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 7.27                                     | 9.28  | 16.38                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.94                                     | 0.10  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.16                                     | 0.13  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.86                                     | 2.13  | 3.80                    |                                  |



**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of Ratios Value <sup>5</sup> |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD02675        | SLD02675                     | 08/24/99        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.06                                     | 0.18  | 0.28                    | 0.32                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.23  | 0.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.02                                    | 1.46  | 0.38                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.81                                     | 0.80  | 1.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.36                                     | 0.20  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.11                                     | 0.14  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.55                                     | 0.67  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 3.02                                     | 1.00  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.87                                     | 0.48  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.25                                     | 0.23  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 4.80                                     | 2.34  | 4.77                    |                                  |
|                 | SLD02752                     | 08/24/99        | 3                                  | 3.5                |                                  | Actinium-227     | 0.16                                     | 0.11  | 0.18                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.08                                     | 0.15  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 15.62                                    | 1.88  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.23                                     | 0.49  | 0.77                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.95                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.96                                     | 0.10  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.93                                     | 0.45  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.76                                     | 0.40  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.62                                     | 0.36  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.07                                     | 0.10  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.38                                     | 1.64  | 3.97                    |                                  |
|                 | SLD02829                     | 08/24/99        | 5.5                                | 6.0                |                                  | Actinium-227     | 0.21                                     | 0.10  | 0.25                    | 0.03                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.04                                    | 0.18  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 16.63                                    | 2.10  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.09                                     | 0.65  | 1.01                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.08                                     | 0.09  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.02                                     | 0.13  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.98                                     | 0.49  | 0.34                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.46                                     | 0.60  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.80                                     | 0.43  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.05                                     | 0.14  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.78                                     | 2.14  | 5.03                    |                                  |
| SLD03903        | SLD03903                     | 10/14/99        | 0.5                                | 1.0                | 0.5                              | Actinium-227     | 0.07                                     | 0.12  | 0.19                    | 0.57                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.04                                     | 0.18  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.09                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 6.75                                     | 0.90  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.21                                     | 0.54  | 0.85                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.10                                     | 0.13  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.52                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.52                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -7.52                                    | 10.63 | 16.47                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.52                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.53                                     | 0.14  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 9.05                                     | 2.05  | 3.50                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD03903        | SLD03904                     | 10/14/99        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.35                                     | 0.17  | 0.26                    | 0.65                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.10                                    | 0.23  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 11.91                                    | 1.53  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.23                                     | 0.74  | 1.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.45                                     | 0.20  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.22                                     | 0.13  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.22                                     | 0.13  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -2.08                                    | 13.83 | 21.96                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.22                                     | 0.13  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.26                                     | 0.17  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 4.50                                     | 2.43  | 5.86                    |                                  |
| SLD03905        | SLD03905                     | 10/14/99        | 0.5                               | 1.0                | 0.5                              | Actinium-227     | 0.10                                     | 0.09  | 0.16                    | 0.38                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.01                                    | 0.14  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.24                                     | 0.05  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 5.31                                     | 0.77  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.65                                     | 0.45  | 0.75                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.21                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.48                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.48                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.16                                     | 9.21  | 13.93                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.48                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.00                                     | 0.12  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.60                                     | 1.46  | 3.19                    |                                  |
|                 | SLD03906                     | 10/14/99        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.10                                     | 0.09  | 0.16                    | 0.37                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.13  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.06                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 8.26                                     | 1.07  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.19                                     | 0.50  | 0.79                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.40                                     | 0.09  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.67                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.67                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -0.04                                    | 9.64  | 14.26                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.67                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.13                                     | 0.14  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.61                                     | 1.19  | 2.60                    |                                  |
| SLD03907        | SLD03907                     | 10/14/99        | 0.5                               | 1.0                |                                  | Actinium-227     | 0.29                                     | 0.10  | 0.14                    | 0.42                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.16                                     | 0.13  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.22                                     | 0.05  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 6.74                                     | 0.88  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.09                                     | 0.50  | 0.77                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.31                                     | 0.09  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.43                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.43                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.51                                     | 8.45  | 13.74                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.43                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.28                                     | 0.12  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 6.21                                     | 1.58  | 2.63                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD03907        | SLD03908                     | 10/14/99        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.78                                     | 0.11  | 0.14                    | 0.47                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.07                                    | 0.14  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.10                                     | 0.03  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 5.89                                     | 0.79  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 1.19                                     | 0.61  | 0.90                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.32                                     | 0.09  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.46                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.46                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.21                                     | 10.62 | 15.73                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.46                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.49                                     | 0.14  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 4.96                                     | 1.65  | 2.70                    |                                  |
| SLD04122        | SLD04122                     | 11/05/99        | 0.5                               | 1.0                | 0.5                              | Actinium-227     | 0.17                                     | 0.16  | 0.24                    | 0.10                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.20                                     | 0.16  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.04                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.99                                    | 1.41  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.16                                    | 0.72  | 1.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.58                                     | 0.16  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.03                                     | 0.13  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.09                                     | 0.49  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.38                                     | 0.78  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.01                                     | 0.46  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.37                                     | 0.17  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 4.60                                     | 1.66  | 4.31                    |                                  |
|                 | SLD04176                     | 11/05/99        | 2.5                               | 3.0                | 0.5                              | Actinium-227     | 0.21                                     | 0.12  | 0.18                    | 0.01                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.09                                     | 0.15  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 13.84                                    | 1.69  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.00                                     | 0.49  | 0.76                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.25                                     | 0.09  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.85                                     | 0.09  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.85                                     | 0.43  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.13                                     | 0.50  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.69                                     | 0.37  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.13                                     | 0.12  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.60                                     | 1.33  | 3.47                    |                                  |
|                 | SLD04230                     | 11/05/99        | 4.5                               | 5.0                | 0.5                              | Actinium-227     | 0.08                                     | 0.11  | 0.17                    | 0.01                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.03                                    | 0.14  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 15.42                                    | 1.86  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.03                                    | 0.68  | 0.75                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.90                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.94                                     | 0.10  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.37                                     | 0.51  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.22                                     | 0.49  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.93                                     | 0.41  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.02                                     | 0.10  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.86                                     | 1.55  | 3.70                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD04133        | SLD04133                     | 11/02/99        | 0.2                               | 0.8                | 0.2                              | Actinium-227     | 0.28                                     | 0.16  | 0.25                    | 0.61                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.05                                     | 0.10  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.22                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 11.11                                    | 1.28  | 0.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.14                                     | 0.67  | 1.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.67                                     | 0.15  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.95                                     | 0.11  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.89                                     | 0.71  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.31                                     | 1.01  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.45                                     | 0.60  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.89                                     | 0.19  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 14.58                                    | 1.99  | 4.44                    |                                  |
|                 | SLD04187                     | 11/02/99        | 2.2                               | 2.7                | 0.2                              | Actinium-227     | 0.34                                     | 0.12  | 0.21                    | 0.10                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.07  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.08                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.61                                    | 1.18  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.18                                    | 0.57  | 0.87                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.23                                     | 0.12  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.86                                     | 0.10  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.02                                     | 0.45  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.38                                     | 0.75  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.61                                     | 0.34  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.28                                     | 0.15  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 4.89                                     | 1.16  | 3.65                    |                                  |
|                 | SLD04241                     | 11/02/99        | 4.5                               | 5.0                | 0.2                              | Actinium-227     | 0.13                                     | 0.10  | 0.15                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.12  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 14.62                                    | 1.74  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.24                                     | 0.43  | 0.69                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.86                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.84                                     | 0.09  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.92                                     | 0.47  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.24                                     | 0.55  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.90                                     | 0.46  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.02                                    | 0.09  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.49                                     | 1.15  | 3.31                    |                                  |
| SLD04143        | SLD04143                     | 11/02/99        | 0.5                               | 1.0                | 0.5                              | Actinium-227     | 0.07                                     | 0.08  | 0.12                    | 0.12                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.13  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.02                                     | 0.01  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 4.47                                     | 0.68  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.05                                     | 0.40  | 0.62                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.90                                     | 0.07  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.32                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.52                                     | 0.32  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.18                                     | 0.48  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.63                                     | 0.34  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.34                                     | 0.10  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 7.30                                     | 1.65  | 2.31                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD04143        | SLD04197                     | 11/02/99        | 2.5                                | 3.0                | 0.5                              | Actinium-227     | 0.08                                     | 0.12  | 0.18                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.04                                     | 0.14  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 12.21                                    | 1.51  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.29                                    | 0.53  | 0.78                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.19                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.90                                     | 0.10  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.24                                     | 0.54  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.56                                     | 0.60  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.95                                     | 0.45  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.12                                     | 0.13  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.45                                     | 1.32  | 3.62                    |                                  |
|                 | SLD04251                     | 11/02/99        | 4.5                                | 5.0                | 0.5                              | Actinium-227     | 0.07                                     | 0.11  | 0.16                    | 0.04                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.13  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 9.70                                     | 1.24  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.07                                    | 0.51  | 0.77                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.48                                     | 0.10  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.79                                     | 0.09  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.23                                     | 0.54  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.45                                     | 0.82  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.02                                     | 0.49  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.18                                     | 0.14  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.88                                     | 1.37  | 3.46                    |                                  |
| SLD04152        | SLD04152                     | 11/02/99        | 0.3                                | 0.8                | 0.3                              | Actinium-227     | -0.08                                    | 0.11  | 0.16                    | 0.05                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.05                                     | 0.14  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.03                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 6.23                                     | 0.86  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.36                                     | 0.60  | 0.72                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.44                                     | 0.10  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.40                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.87                                     | 0.43  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.96                                     | 0.69  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.43                                     | 0.30  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.21                                     | 0.12  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.78                                     | 1.46  | 2.86                    |                                  |
|                 | SLD04206                     | 11/02/99        | 2.5                                | 3.0                |                                  | Actinium-227     | 0.17                                     | 0.10  | 0.16                    | 0.02                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.06                                     | 0.14  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.82                                    | 1.47  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.15                                     | 0.47  | 0.74                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.07                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.73                                     | 0.09  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.07                                     | 0.50  | 0.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.40                                     | 0.57  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.35                                     | 0.56  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.10                                     | 0.10  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.72                                     | 1.25  | 3.08                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD04152        | SLD04260                     | 11/02/99        | 5                                 | 5.5                |                                  | Actinium-227     | 0.11                                     | 0.12  | 0.19                    | 0.03                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.03                                    | 0.15  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 14.83                                    | 1.82  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.03                                    | 0.50  | 0.78                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.05                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.84                                     | 0.10  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.37                                     | 0.67  | 0.57                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.20                                     | 0.85  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.71                                     | 0.45  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.07                                     | 0.11  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.57                                     | 1.37  | 3.96                    |                                  |
| SLD04160        | SLD04160                     | 11/08/99        | 0.3                               | 0.8                | 0.3                              | Actinium-227     | 1.86                                     | 1.18  | 3.29                    | 1.69                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.14                                     | 0.09  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.03                                    | 0.11  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | -0.05                                    | 0.39  | 0.59                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.04                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 11.23                                    | 1.36  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.94                                     | 0.07  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.65                                     | 0.41  | 0.39                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.85                                     | 0.93  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.86                                     | 0.45  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.62                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.04                                     | 0.12  | 0.15                    |                                  |
|                 | SLD04214                     | 11/08/99        | 2.5                               | 3.0                |                                  | Actinium-227     | 3.21                                     | 1.57  | 2.74                    | 0.65                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.08                                     | 0.11  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.02                                     | 0.13  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | -0.09                                    | 0.49  | 0.74                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 12.32                                    | 1.51  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.12                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.06                                     | 0.50  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.78                                     | 0.66  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.91                                     | 0.45  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.86                                     | 0.09  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.00                                     | 0.16  | 0.18                    |                                  |
|                 | SLD04268                     | 11/08/99        | 4.5                               | 5.0                |                                  | Actinium-227     | 1.39                                     | 2.23  | 3.76                    | 0.74                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.10                                     | 0.11  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.12                                    | 0.14  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | -0.23                                    | 0.46  | 0.68                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.04                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 13.86                                    | 1.66  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.95                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.94                                     | 0.45  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.36                                     | 0.55  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.84                                     | 0.42  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.88                                     | 0.10  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.12                                     | 0.15  | 0.17                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD04347        | SLD04347                     | 02/21/00        | 1.5                                | 2.2                | 0.5                              | Actinium-227     | 0.00                                     | 0.00  | 0.63                    | 0.04                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 6.42                                     | 0.39  | 0.67                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 2.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.38                                     | 0.04  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.59                                     | 0.03  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.59                                     | 0.03  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 12.90                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.59                                     | 0.03  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.00                                     | 0.00  | 0.42                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.42                                     | 0.37  | 1.44                    |                                  |
| SLD04348        | SLD04348                     | 02/21/00        | 1.6                                | 2.2                | 0.5                              | Actinium-227     | 0.00                                     | 0.00  | 0.71                    | 0.10                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.28                                    | 0.52  | 0.80                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 2.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.93                                     | 0.04  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.05                                     | 0.05  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.05                                     | 0.05  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 14.80                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.05                                     | 0.05  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.30                                     | 0.09  | 0.46                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 6.02                                     | 0.50  | 1.82                    |                                  |
| SLD04349        | SLD04349                     | 02/21/00        | 1.8                                | 2.2                | 0.2                              | Actinium-227     | 0.37                                     | 0.03  | 0.30                    | 0.44                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.12                                     | 0.01  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 10.05                                    | 0.41  | 0.70                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 2.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 5.60                                     | 0.08  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.95                                     | 0.04  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.95                                     | 0.04  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 14.60                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.95                                     | 0.04  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.67                                     | 0.07  | 0.45                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 13.87                                    | 0.75  | 1.85                    |                                  |
| SLD04350        | SLD04350                     | 02/21/00        | 1.4                                | 2.0                | 0.2                              | Actinium-227     | 0.00                                     | 0.00  | 0.68                    | 0.09                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.01  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 9.51                                     | 0.44  | 0.64                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 2.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.64                                     | 0.05  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.86                                     | 0.04  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.86                                     | 0.04  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 14.70                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.86                                     | 0.04  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.00                                     | 0.00  | 0.46                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 5.87                                     | 0.49  | 1.78                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD04351        | SLD04351                     | 02/21/00        | 1.6                               | 2.2                | 0.2                              | Actinium-227     | 0.00                                     | 0.00  | 0.61                    | 0.18                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.10                                     | 0.01  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.57                                     | 0.40  | 0.64                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 1.90                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.20                                     | 0.06  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.99                                     | 0.04  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.99                                     | 0.04  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 12.90                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.99                                     | 0.04  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.38                                     | 0.06  | 0.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 8.79                                     | 0.58  | 1.97                    |                                  |
| SLD04352        | SLD04352                     | 02/21/00        | 1.7                               | 2.1                | 0.2                              | Actinium-227     | 0.38                                     | 0.04  | 0.32                    | 0.17                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.04                                     | 0.01  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 12.71                                    | 0.51  | 0.74                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 2.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.61                                     | 0.06  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.90                                     | 0.04  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.90                                     | 0.04  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 14.80                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.90                                     | 0.04  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.00                                     | 0.00  | 0.46                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 6.96                                     | 0.52  | 1.77                    |                                  |
|                 | SLD04485                     | 02/21/00        | 3.4                               | 4.2                |                                  | Actinium-227     | 0.00                                     | 0.00  | 0.68                    | 0.11                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.04                                     | 0.01  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 7.00                                     | 0.38  | 0.75                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 2.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.55                                     | 0.05  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.64                                     | 0.04  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.64                                     | 0.04  | 0.18                    |                                  |
| SLD04353        | SLD04353                     | 02/21/00        | 1.7                               | 2.2                | 0.2                              | Actinium-227     | 0.24                                     | 0.03  | 0.30                    | 0.14                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.08                                     | 0.01  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 7.86                                     | 0.38  | 0.71                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 2.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.13                                     | 0.06  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.74                                     | 0.04  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.74                                     | 0.04  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 14.60                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.74                                     | 0.04  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.36                                     | 0.06  | 0.46                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 7.14                                     | 0.51  | 1.70                    |                                  |



**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD04353        | SLD04486                     | 02/21/00        | 3.5                                | 4.2                |                                  | Actinium-227     | 0.00                                     | 0.00  | 0.69                    | 0.05                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 2.40                                     | 0.31  | 0.75                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 2.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.48                                     | 0.03  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.27                                     | 0.04  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.27                                     | 0.04  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 12.90                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.27                                     | 0.04  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.00                                     | 0.00  | 0.41                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 4.18                                     | 0.53  | 2.03                    |                                  |
| SLD04355        | SLD04355                     | 02/21/00        | 1.6                                | 2.2                | 0.2                              | Actinium-227     | 3.74                                     | 0.17  | 1.52                    | 3.81                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.69                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.37                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 5.34                                     | 0.89  | 3.78                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 3.89                                     | 0.87  | 7.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 52.52                                    | 0.73  | 0.53                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.52                                     | 0.07  | 0.54                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.52                                     | 0.07  | 0.54                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 34.74                                    | 15.65 | 72.20                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.52                                     | 0.07  | 0.54                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 2.50                                     | 0.45  | 2.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 26.19                                    | 1.90  | 6.46                    |                                  |
|                 | SLD04535                     | 02/21/00        | 3.5                                | 4.2                |                                  | Actinium-227     | 0.22                                     | 0.04  | 0.33                    | 0.43                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 4.80                                     | 0.33  | 0.72                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 2.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.09                                     | 0.05  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.43                                     | 0.04  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.43                                     | 0.04  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 6.54                                     | 3.15  | 14.50                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.43                                     | 0.04  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.34                                     | 0.08  | 0.43                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 5.34                                     | 0.52  | 2.05                    |                                  |
| SLD04356        | SLD04356                     | 02/21/00        | 1.7                                | 2.3                | 0.2                              | Actinium-227     | 0.40                                     | 0.03  | 0.28                    | 0.31                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 8.78                                     | 0.38  | 0.71                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 2.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 4.99                                     | 0.08  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.87                                     | 0.03  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.87                                     | 0.03  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 6.84                                     | 1.25  | 9.80                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.87                                     | 0.03  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.40                                     | 0.07  | 0.43                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 7.20                                     | 0.53  | 1.87                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD04357        | SLD04357                     | 02/21/00        | 1.6                               | 2.2                | 0.2                              | Actinium-227     | 0.00                                     | 0.00  | 0.47                    | 0.28                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.02                                     | 0.00  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.24                                    | 0.39  | 0.50                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 1.44                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.13                                     | 0.04  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.94                                     | 0.03  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.94                                     | 0.03  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 4.10                                     | 2.09  | 9.64                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.94                                     | 0.03  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.21                                     | 0.04  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 5.74                                     | 0.45  | 1.70                    |                                  |
|                 |                              |                 |                                   |                    |                                  |                  |                                          |       |                         |                                  |
| SLD04358        | SLD04358                     | 02/21/00        | 1.5                               | 2.2                | 0.2                              | Actinium-227     | 0.52                                     | 0.04  | 0.31                    | 0.34                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.03                                     | 0.01  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 7.94                                     | 0.36  | 0.77                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 2.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 5.86                                     | 0.09  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.71                                     | 0.03  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.71                                     | 0.03  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 14.70                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.71                                     | 0.03  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.00                                     | 0.00  | 0.47                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 8.39                                     | 0.56  | 1.82                    |                                  |
|                 |                              |                 |                                   |                    |                                  |                  |                                          |       |                         |                                  |
| SLD05704        | SLD05704                     | 10/18/00        | 0.6                               | 1.1                | 0.8                              | Actinium-227     | 0.08                                     | 0.10  | 0.15                    | 0.13                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.08                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 3.65                                     | 0.56  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.03                                     | 0.41  | 0.64                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.41                                     | 0.09  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.27                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.76                                     | 0.44  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.34                                     | 1.07  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.69                                     | 0.42  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.21                                     | 0.10  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.06                                     | 0.44  | 2.46                    |                                  |
|                 |                              |                 |                                   |                    |                                  |                  |                                          |       |                         |                                  |
|                 | SLD05746                     | 10/18/00        | 2                                 | 2.6                |                                  | Actinium-227     | 0.03                                     | 0.12  | 0.18                    | 0.04                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 11.36                                    | 1.26  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.04                                    | 0.50  | 0.77                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.13                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.60                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.88                                     | 0.48  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.37                                     | 0.85  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.04                                     | 0.52  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.29                                     | 0.18  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.88                                     | 0.59  | 3.92                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of Ratios <sup>5</sup> Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD05705        | SLD05705                     | 10/24/00        | 0.3                                | 0.8                | 0.3                              | Actinium-227     | 0.01                                     | 0.07  | 0.10                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 2.19                                     | 0.37  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.01                                    | 0.28  | 0.50                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.63                                     | 0.05  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.08                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.36                                     | 0.33  | 0.44                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.08                                     | 0.54  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.24                                     | 0.24  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.06                                     | 0.06  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.91                                     | 0.60  | 2.89                    |                                  |
|                 | SLD05747                     | 10/24/00        | 1.7                                | 2.3                |                                  | Actinium-227     | 0.00                                     | 0.06  | 0.09                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 1.61                                     | 0.30  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.05                                     | 0.26  | 0.48                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.63                                     | 0.04  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.08                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.30                                     | 0.28  | 0.33                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.82                                     | 0.45  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.16                                     | 0.19  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.02                                     | 0.06  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.89                                     | 0.52  | 2.57                    |                                  |
| SLD05706        | SLD05706                     | 10/24/00        | 0.5                                | 1.0                | 0.5                              | Actinium-227     | 0.39                                     | 0.13  | 0.20                    | 0.48                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.07                                     | 0.09  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 8.22                                     | 1.05  | 0.34                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.60                                     | 0.67  | 1.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 7.64                                     | 1.97  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.05                                     | 0.11  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.75                                     | 0.74  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 7.64                                     | 1.97  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.74                                     | 0.45  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.64                                     | 0.22  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 6.05                                     | 1.59  | 4.36                    |                                  |
| SLD05707        | SLD05707                     | 10/23/00        | 0.4                                | 0.9                | 0.4                              | Actinium-227     | 0.05                                     | 0.11  | 0.16                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.03                                     | 0.07  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.06                                     | 0.05  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 6.02                                     | 0.80  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.21                                     | 0.46  | 0.75                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.32                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.54                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.71                                     | 0.43  | 0.34                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.35                                     | 0.60  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.62                                     | 0.39  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.16                                     | 0.13  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.79                                     | 0.81  | 3.68                    |                                  |

Table C-1  
PSC Metals Vicinity Property (DT-8)  
Pre-Design Investigation Radiological Data Results

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD05707        | SLD05749                     | 10/23/00        | 1.9                               | 2.4                |                                  | Actinium-227     | 0.03                                     | 0.16  | 0.24                    | 0.16                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.07                                    | 0.09  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 8.46                                     | 1.04  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.41                                     | 0.71  | 1.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.68                                     | 0.15  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.26                                     | 0.13  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.12                                     | 0.55  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.64                                     | 1.13  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.56                                     | 0.66  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.23                                     | 0.20  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.83                                     | 1.30  | 4.32                    |                                  |
| SLD05708        | SLD05708                     | 10/23/00        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.14                                     | 0.16  | 0.24                    | 1.35                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.14                                     | 0.10  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.12                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 8.90                                     | 1.09  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.64                                     | 0.65  | 1.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.88                                     | 0.16  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.81                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.02                                     | 0.54  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 8.22                                     | 2.10  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.94                                     | 0.52  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.39                                     | 0.19  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 6.00                                     | 1.38  | 4.07                    |                                  |
|                 | SLD05750                     | 10/23/00        | 1.4                               | 2.0                |                                  | Actinium-227     | 0.13                                     | 0.17  | 0.25                    | 0.20                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.07                                     | 0.09  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.69                                     | 1.21  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.16                                    | 0.72  | 1.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.80                                     | 0.15  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.29                                     | 0.13  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.95                                     | 0.81  | 0.39                    |                                  |
| SLD05709        | SLD05709                     | 10/18/00        | 0.5                               | 1.1                | 0.5                              | Thorium-230      | 3.76                                     | 1.21  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.89                                     | 0.78  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.20                                     | 0.19  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.70                                     | 1.16  | 5.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Actinium-227     | 0.00                                     | 0.16  | 0.22                    | 0.15                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.25                                     | 0.04  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.20                                     | 1.11  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.89                                     | 0.62  | 0.99                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.23                                     | 0.18  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.51                                     | 0.08  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.80                                     | 0.45  | 0.43                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.97                                     | 1.14  | 0.47                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.58                                     | 0.37  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.31                                     | 0.17  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.36                                     | 0.69  | 3.92                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD05709        | SLD05751                     | 10/18/00        | 2.3                                | 2.6                |                                  | Actinium-227     | 0.55                                     | 0.17  | 0.28                    | 0.68                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.08                                     | 0.06  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.11                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 5.83                                     | 0.91  | 0.40                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.46                                     | 0.77  | 1.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 4.85                                     | 0.27  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.60                                     | 0.09  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.85                                     | 0.50  | 0.44                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 6.29                                     | 1.69  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.54                                     | 0.37  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 1.10                                     | 0.22  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 20.86                                    | 2.15  | 5.00                    |                                  |
| SLD05710        | SLD05710                     | 10/18/00        | 0.6                                | 1.1                | 0.6                              | Actinium-227     | 0.05                                     | 0.07  | 0.11                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.01                                    | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 2.48                                     | 0.43  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.06                                     | 0.32  | 0.50                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.89                                     | 0.06  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.16                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.11                                     | 0.18  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.81                                     | 0.75  | 0.44                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.30                                     | 0.27  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.00                                     | 0.09  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.89                                     | 0.28  | 2.51                    |                                  |
|                 | SLD05752                     | 10/18/00        | 2.1                                | 2.6                |                                  | Actinium-227     | 0.13                                     | 0.10  | 0.16                    | 0.04                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 15.99                                    | 1.62  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.31                                     | 0.44  | 0.69                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.92                                     | 0.07  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.83                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.14                                     | 0.64  | 0.50                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.05                                     | 0.88  | 0.37                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.47                                     | 0.72  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.05                                     | 0.08  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.29                                     | 0.50  | 3.18                    |                                  |
| SLD05711        | SLD05711                     | 10/31/00        | 2                                  | 2.5                | 2.0                              | Actinium-227     | 0.00                                     | 0.14  | 0.18                    | 0.03                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.07  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 10.70                                    | 1.20  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.20                                     | 0.53  | 0.84                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.28                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.85                                     | 0.10  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.63                                     | 0.67  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.06                                     | 0.77  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.34                                     | 0.59  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.17                                     | 0.14  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.13                                     | 1.01  | 3.48                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD05711        | SLD05753                     | 10/31/00        | 3.5                                | 4.0                |                                  | Actinium-227     | 0.05                                     | 0.13  | 0.20                    | 0.03                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.03                                     | 0.17  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 14.42                                    | 1.67  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.22                                     | 0.55  | 0.87                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.43                                     | 0.10  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.85                                     | 0.10  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.73                                     | 0.73  | 0.44                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.20                                     | 0.83  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.93                                     | 0.47  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.27                                     | 0.15  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.09                                     | 1.46  | 3.73                    |                                  |
| SLD05712        | SLD05712                     | 10/18/00        | 0.5                                | 1.0                | 0.5                              | Actinium-227     | 0.09                                     | 0.13  | 0.22                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.03                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 2.67                                     | 0.63  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.21                                     | 0.58  | 1.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.54                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.11                                     | 0.05  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.24                                     | 0.25  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.12                                     | 0.53  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.43                                     | 0.31  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.10                                     | 0.13  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.79                                     | 0.57  | 3.37                    |                                  |
|                 | SLD05754                     | 10/18/00        | 2                                  | 2.5                |                                  | Actinium-227     | 0.20                                     | 0.13  | 0.19                    | 0.08                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 13.18                                    | 1.44  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.44                                     | 0.48  | 0.91                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.49                                     | 0.10  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.84                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.39                                     | 0.63  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.75                                     | 0.96  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.32                                     | 0.61  | 0.16                    |                                  |
| SLD05713        | SLD05713                     | 10/30/00        | 0.5                                | 1.0                | 0.5                              | Uranium-235      | 0.14                                     | 0.15  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.61                                     | 0.52  | 4.43                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Actinium-227     | 0.02                                     | 0.09  | 0.13                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.06                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 4.32                                     | 0.61  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.09                                    | 0.45  | 0.70                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.70                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.30                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.74                                     | 0.40  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.28                                     | 0.54  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.24                                     | 0.22  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.06                                     | 0.08  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.04                                     | 0.56  | 3.53                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD05713        | SLD05755                     | 10/30/00        | 2                                 | 2.5                |                                  | Actinium-227     | 0.03                                     | 0.07  | 0.11                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.02                                    | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 7.60                                     | 0.88  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.05                                    | 0.36  | 0.56                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.51                                     | 0.04  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.34                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.45                                     | 0.32  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.68                                     | 0.38  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.34                                     | 0.26  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.06                                     | 0.07  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.78                                     | 0.64  | 3.10                    |                                  |
| SLD05714        | SLD05714                     | 10/18/00        | 0.5                               | 1.0                | 0.5                              | Actinium-227     | 0.08                                     | 0.08  | 0.11                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 3.09                                     | 0.47  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.03                                     | 0.30  | 0.47                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.78                                     | 0.05  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.11                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.35                                     | 0.29  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.54                                     | 0.63  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.11                                     | 0.15  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.18                                     | 0.09  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.61                                     | 0.29  | 2.10                    |                                  |
|                 | SLD05756                     | 10/18/00        | 1.9                               | 2.4                |                                  | Actinium-227     | 0.00                                     | 0.07  | 0.10                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.22                                     | 0.38  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.25                                     | 0.29  | 0.48                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.73                                     | 0.05  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.10                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.40                                     | 0.31  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.60                                     | 0.67  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.22                                     | 0.23  | 0.15                    |                                  |
| SLD05715        | SLD05715                     | 10/23/00        | 0.5                               | 1.0                | 0.5                              | Uranium-235      | 0.03                                     | 0.06  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.57                                     | 0.30  | 2.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Actinium-227     | -0.01                                    | 0.10  | 0.15                    | 0.02                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.05                                     | 0.05  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.05                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.89                                     | 0.49  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.40                                     | 0.54  | 0.69                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.25                                     | 0.08  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.24                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.79                                     | 0.48  | 0.44                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.09                                     | 0.80  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.16                                     | 0.21  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.00                                     | 0.14  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.99                                     | 0.64  | 3.58                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD05715        | SLD05757                     | 10/23/00        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.17                                     | 0.18  | 0.26                    | 0.28                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.05                                    | 0.11  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.07                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 7.17                                     | 1.00  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.49                                     | 0.77  | 1.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.65                                     | 0.19  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.70                                     | 0.10  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.10                                     | 0.63  | 0.45                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 5.40                                     | 1.67  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.48                                     | 0.73  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.41                                     | 0.23  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 4.59                                     | 1.53  | 5.22                    |                                  |
| SLD05716        | SLD05716                     | 10/18/00        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.07                                     | 0.11  | 0.17                    | 0.19                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.18                                     | 0.03  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 6.61                                     | 0.84  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.40                                     | 0.51  | 0.80                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.86                                     | 0.12  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.50                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.44                                     | 0.31  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.87                                     | 0.87  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.51                                     | 0.32  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.18                                     | 0.13  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.25                                     | 0.49  | 3.09                    |                                  |
|                 | SLD05758                     | 10/18/00        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.20                                     | 0.65  | 0.78                    | 0.26                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.14  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.09                                    | 0.09  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 11.34                                    | 2.85  | 1.44                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.70                                    | 2.28  | 3.95                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.54                                     | 0.27  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.51                                     | 0.36  | 0.39                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.93                                     | 0.76  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.07                                     | 1.01  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.34                                     | 0.61  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.46                                     | 0.70  | 0.78                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 5.79                                     | 2.41  | 17.64                   |                                  |
| SLD05717        | SLD05717                     | 10/24/00        | 0.5                               | 1.0                | 0.5                              | Actinium-227     | 0.06                                     | 0.03  | 0.11                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 4.25                                     | 0.55  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.13                                    | 0.29  | 0.51                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.70                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.19                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.21                                     | 0.22  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.90                                     | 0.46  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.26                                     | 0.24  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.01                                    | 0.07  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.30                                     | 0.58  | 2.86                    |                                  |



**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD05717        | SLD05759                     | 10/24/00        | 2                                 | 2.5                |                                  | Actinium-227     | -0.04                                    | 0.08  | 0.12                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.12                                     | 0.44  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.27                                    | 0.31  | 0.53                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.87                                     | 0.06  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.16                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.47                                     | 0.33  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.52                                     | 0.63  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.53                                     | 0.35  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.12                                     | 0.11  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.17                                     | 0.58  | 2.55                    |                                  |
| SLD05718        | SLD05718                     | 10/30/00        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.04                                     | 0.09  | 0.14                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.04                                    | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.05                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 4.06                                     | 0.61  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.05                                     | 0.39  | 0.62                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.89                                     | 0.06  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.41                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.33                                     | 0.29  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.25                                     | 0.55  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.63                                     | 0.38  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.07                                     | 0.12  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.80                                     | 0.65  | 2.74                    |                                  |
|                 | SLD05760                     | 10/30/00        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.01                                     | 0.07  | 0.12                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.06                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.45                                     | 0.42  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.12                                     | 0.36  | 0.60                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.59                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.27                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.57                                     | 0.40  | 0.42                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.25                                     | 0.58  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.51                                     | 0.35  | 0.15                    |                                  |
| SLD05719        | SLD05719                     | 10/30/00        | 0                                 | 0.5                | 0.0                              | Uranium-235      | 0.06                                     | 0.09  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.85                                     | 0.65  | 2.61                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Actinium-227     | 0.08                                     | 0.08  | 0.12                    | 0.01                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.04                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 3.48                                     | 0.52  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.12                                    | 0.37  | 0.57                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.94                                     | 0.06  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.36                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.46                                     | 0.32  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.97                                     | 0.71  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.30                                     | 0.25  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.06                                     | 0.09  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.45                                     | 0.61  | 2.17                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD05719        | SLD05761                     | 10/30/00        | 1.7                                | 2.1                |                                  | Actinium-227     | 0.23                                     | 0.11  | 0.20                    | 0.03                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.04                                     | 0.07  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.23                                     | 0.05  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 3.79                                     | 0.59  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.13                                     | 0.55  | 0.89                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.29                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.38                                     | 0.07  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.58                                     | 0.42  | 0.40                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.36                                     | 0.92  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.47                                     | 0.37  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.31                                     | 0.14  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.32                                     | 0.99  | 3.28                    |                                  |
| SLD05720        | SLD05720                     | 10/17/00        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.12                                     | 0.11  | 0.16                    | 1.24                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.10                                     | 0.12  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.12                                     | 0.03  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 4.30                                     | 0.62  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.21                                     | 0.43  | 0.68                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.13                                     | 0.08  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.36                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.89                                     | 0.52  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 8.01                                     | 2.08  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.70                                     | 0.44  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.21                                     | 0.17  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.83                                     | 1.22  | 2.29                    |                                  |
|                 | SLD05762                     | 10/17/00        | 1.6                                | 2.0                |                                  | Actinium-227     | 0.34                                     | 0.16  | 0.25                    | 0.25                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.02                                    | 0.23  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 9.77                                     | 1.28  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.50                                     | 0.79  | 1.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.83                                     | 0.22  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.92                                     | 0.12  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.05                                     | 0.55  | 0.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 4.51                                     | 1.32  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.07                                     | 0.54  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.36                                     | 0.17  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 5.64                                     | 2.36  | 5.04                    |                                  |
| SLD05721        | SLD05721                     | 10/19/00        | 0                                  | 0.6                | 0.0                              | Actinium-227     | 0.02                                     | 0.07  | 0.11                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 2.83                                     | 0.43  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.19                                    | 0.33  | 0.49                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.21                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.21                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.62                                     | 0.39  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.47                                     | 0.62  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.30                                     | 0.27  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.15                                     | 0.09  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.61                                     | 0.31  | 2.31                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of Ratios Value <sup>5</sup> |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD05721        | SLD05763                     | 10/19/00        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.10                                     | 0.11  | 0.16                    | 0.10                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.13                                     | 0.03  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 5.67                                     | 0.72  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.13                                    | 0.47  | 0.70                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.13                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.48                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.28                                     | 0.54  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 3.50                                     | 1.01  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.66                                     | 0.37  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.12                                     | 0.09  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.86                                     | 0.40  | 2.67                    |                                  |
| SLD05722        | SLD05722                     | 10/30/00        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.10                                     | 0.07  | 0.11                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.03                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 2.09                                     | 0.34  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.14                                     | 0.29  | 0.48                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.62                                     | 0.05  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.21                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.42                                     | 0.35  | 0.44                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.73                                     | 0.72  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.22                                     | 0.24  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.09                                     | 0.09  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.95                                     | 0.51  | 1.86                    |                                  |
|                 | SLD05764                     | 10/30/00        | 1.2                                | 1.7                |                                  | Actinium-227     | 0.04                                     | 0.08  | 0.13                    | 0.05                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.04                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.03                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 3.90                                     | 0.52  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.04                                     | 0.35  | 0.56                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.97                                     | 0.06  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.27                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.75                                     | 0.42  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.72                                     | 0.88  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.44                                     | 0.32  | 0.31                    |                                  |
| SLD05723        | SLD05723                     | 11/14/00        | 0.7                                | 1.2                | 0.7                              | Uranium-235      | 0.09                                     | 0.08  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.47                                     | 0.70  | 2.54                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Actinium-227     | 0.03                                     | 0.08  | 0.13                    | 0.02                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.11  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.04                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 4.91                                     | 0.66  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.16                                    | 0.38  | 0.56                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.85                                     | 0.06  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.35                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.51                                     | 0.40  | 0.46                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.29                                     | 0.87  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.86                                     | 0.49  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.08                                     | 0.08  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.58                                     | 1.12  | 2.68                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD05723        | SLD05765                     | 11/14/00        | 2.2                                | 2.7                |                                  | Actinium-227     | 0.06                                     | 0.11  | 0.18                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.14  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 5.54                                     | 0.76  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.13                                     | 0.50  | 0.78                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.63                                     | 0.11  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.51                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.52                                     | 0.36  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.87                                     | 0.72  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.59                                     | 0.37  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.27                                     | 0.16  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.72                                     | 1.47  | 3.39                    |                                  |
| SLD05724        | SLD05724                     | 11/14/00        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.00                                     | 0.06  | 0.09                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.08  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.03                                     | 0.01  | 0.01                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 2.41                                     | 0.38  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.58                                     | 0.31  | 0.46                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.64                                     | 0.05  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.16                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.19                                     | 0.21  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.03                                     | 0.46  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.22                                     | 0.20  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.07                                     | 0.08  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.57                                     | 0.91  | 2.04                    |                                  |
|                 | SLD05766                     | 11/14/00        | 1.3                                | 2.0                |                                  | Actinium-227     | 0.10                                     | 0.09  | 0.15                    | 0.03                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.07                                     | 0.11  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.06                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 4.27                                     | 0.59  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.09                                     | 0.37  | 0.65                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.02                                     | 0.07  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.42                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.66                                     | 0.36  | 0.22                    |                                  |
| SLD05725        | SLD05725                     | 10/30/00        | 0                                  | 0.5                | 0.0                              | Thorium-230      | 0.95                                     | 0.45  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.47                                     | 0.32  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.14                                     | 0.12  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.13                                     | 1.13  | 2.75                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Actinium-227     | 0.04                                     | 0.09  | 0.13                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.04                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 2.32                                     | 0.37  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.13                                     | 0.36  | 0.58                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.01                                     | 0.06  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.41                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.85                                     | 0.46  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.68                                     | 0.68  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.39                                     | 0.30  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.12                                     | 0.08  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.82                                     | 0.61  | 2.54                    |                                  |

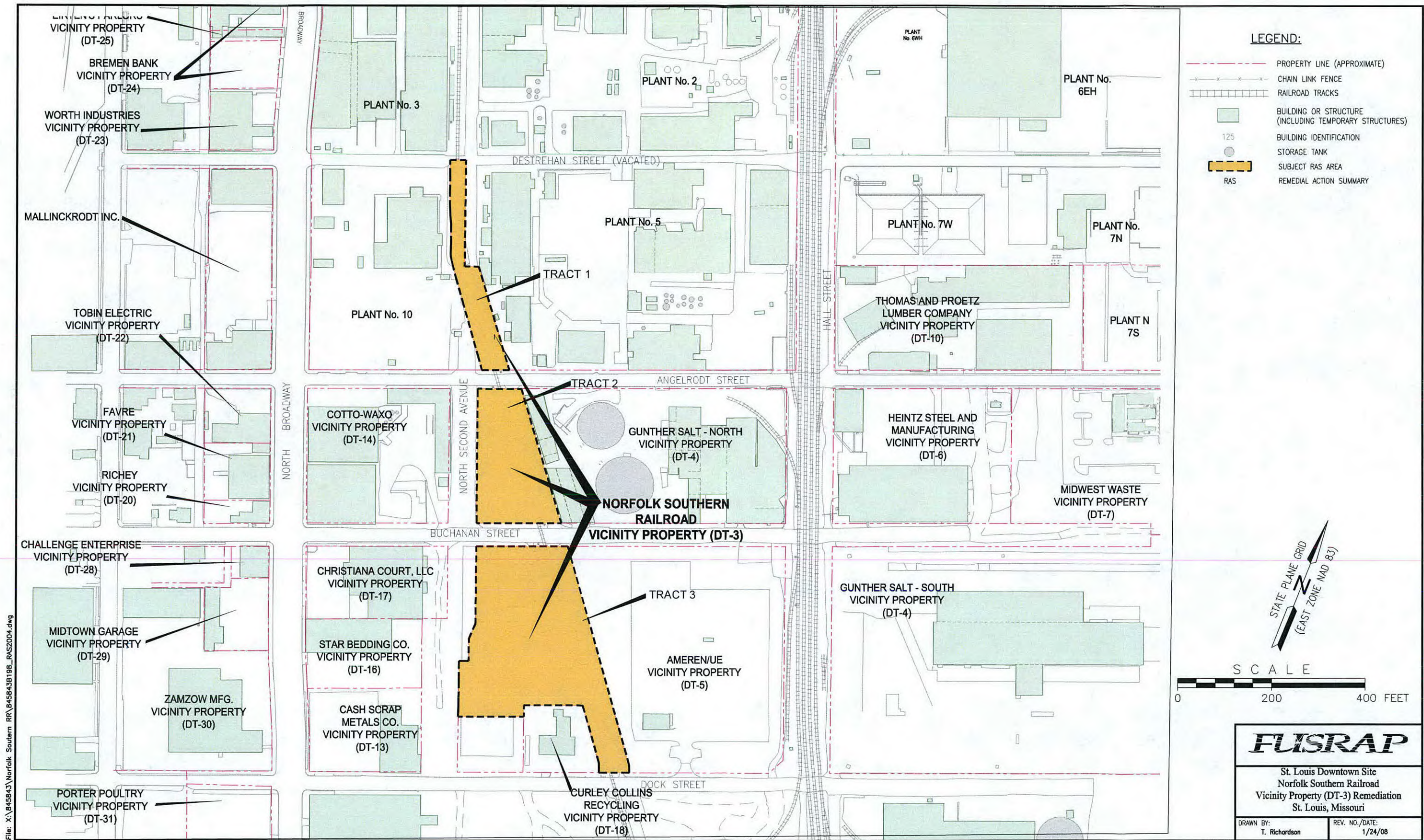
**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD05725        | SLD05767                     | 10/30/00        | 1                                 | 1.6                |                                  | Actinium-227     | 0.00                                     | 0.13  | 0.19                    | 0.03                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.07  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.03                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.08                                     | 0.40  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.31                                     | 0.56  | 0.88                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.97                                     | 0.15  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.91                                     | 0.09  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.54                                     | 0.36  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.24                                     | 0.78  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.46                                     | 0.32  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.27                                     | 0.19  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.74                                     | 0.80  | 3.42                    |                                  |
| SLD05726        | SLD05726                     | 10/12/00        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.04                                     | 0.06  | 0.10                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.03  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.01  | 0.01                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 1.01                                     | 0.28  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.06                                    | 0.27  | 0.43                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.54                                     | 0.04  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.18                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.51                                     | 0.36  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.98                                     | 0.49  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.60                                     | 0.37  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.06                                     | 0.08  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.65                                     | 0.41  | 2.32                    |                                  |
|                 | SLD05768                     | 10/12/00        | 1.2                               | 1.8                |                                  | Actinium-227     | 0.02                                     | 0.09  | 0.14                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.07                                     | 0.41  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.39                                     | 0.36  | 0.65                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.68                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.26                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.76                                     | 0.44  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.84                                     | 0.47  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.40                                     | 0.31  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.05                                     | 0.08  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.12                                     | 0.73  | 2.31                    |                                  |
| SLD05727        | SLD05727                     | 10/12/00        | 0                                 | 0.6                | 0.0                              | Actinium-227     | -0.01                                    | 0.09  | 0.13                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.32                                     | 0.43  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.30                                    | 0.38  | 0.56                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.75                                     | 0.06  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.21                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.17                                     | 0.19  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.24                                     | 0.52  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.35                                     | 0.27  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.06                                     | 0.11  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.98                                     | 0.52  | 2.68                    |                                  |

## FIGURES

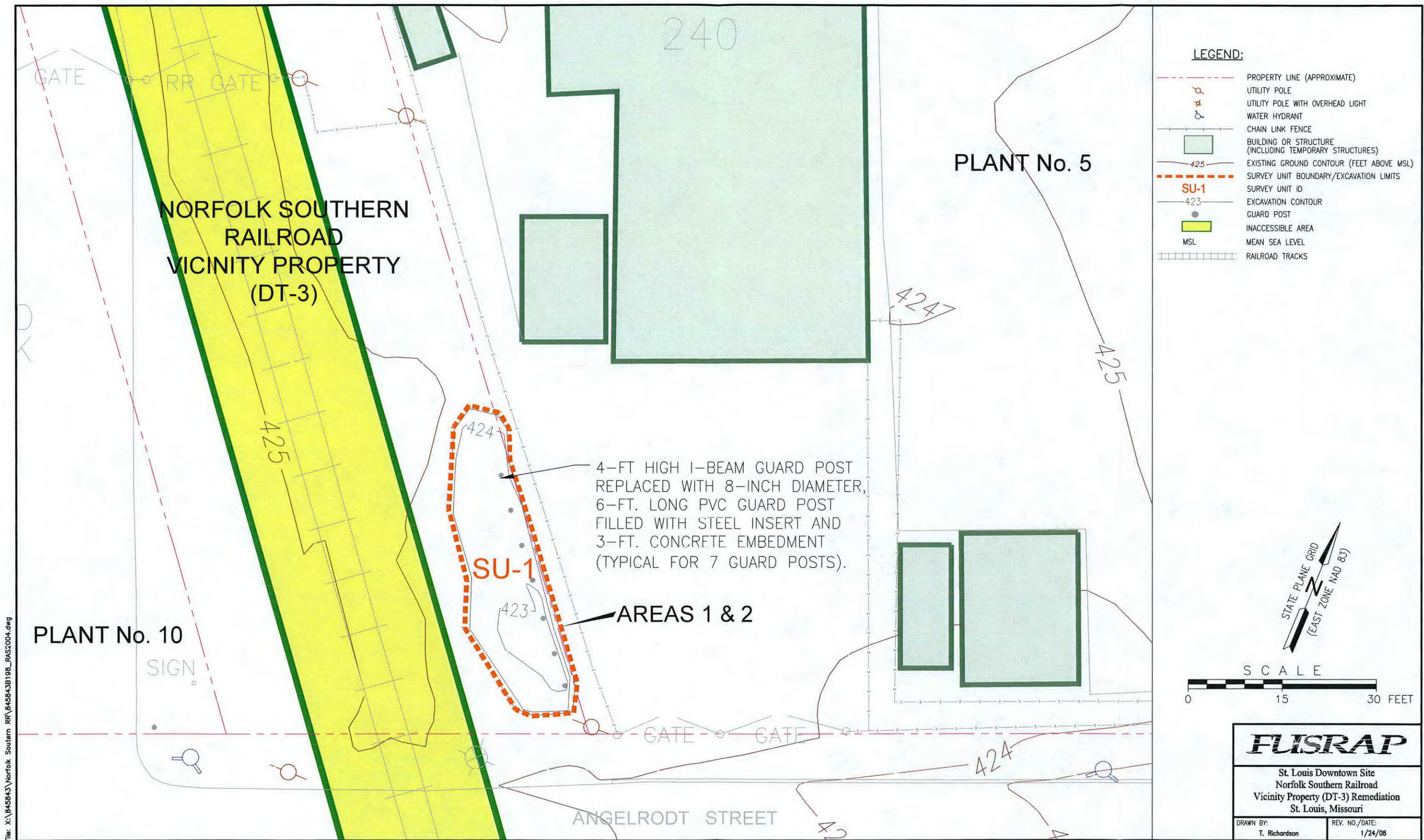




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Figure 1. Location Map





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Figure 2. Tract 1 As-Built Excavation/Survey Unit Boundary



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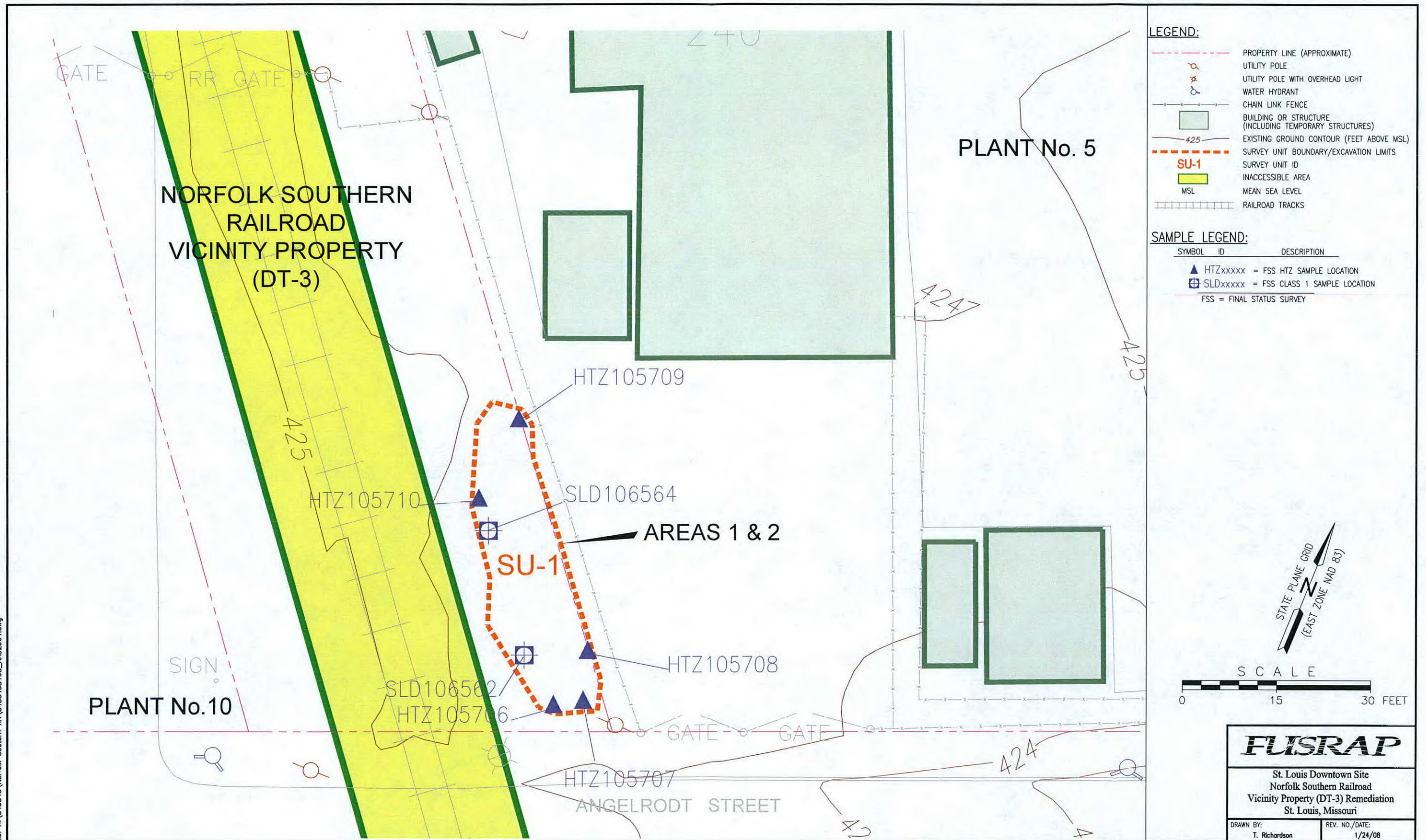
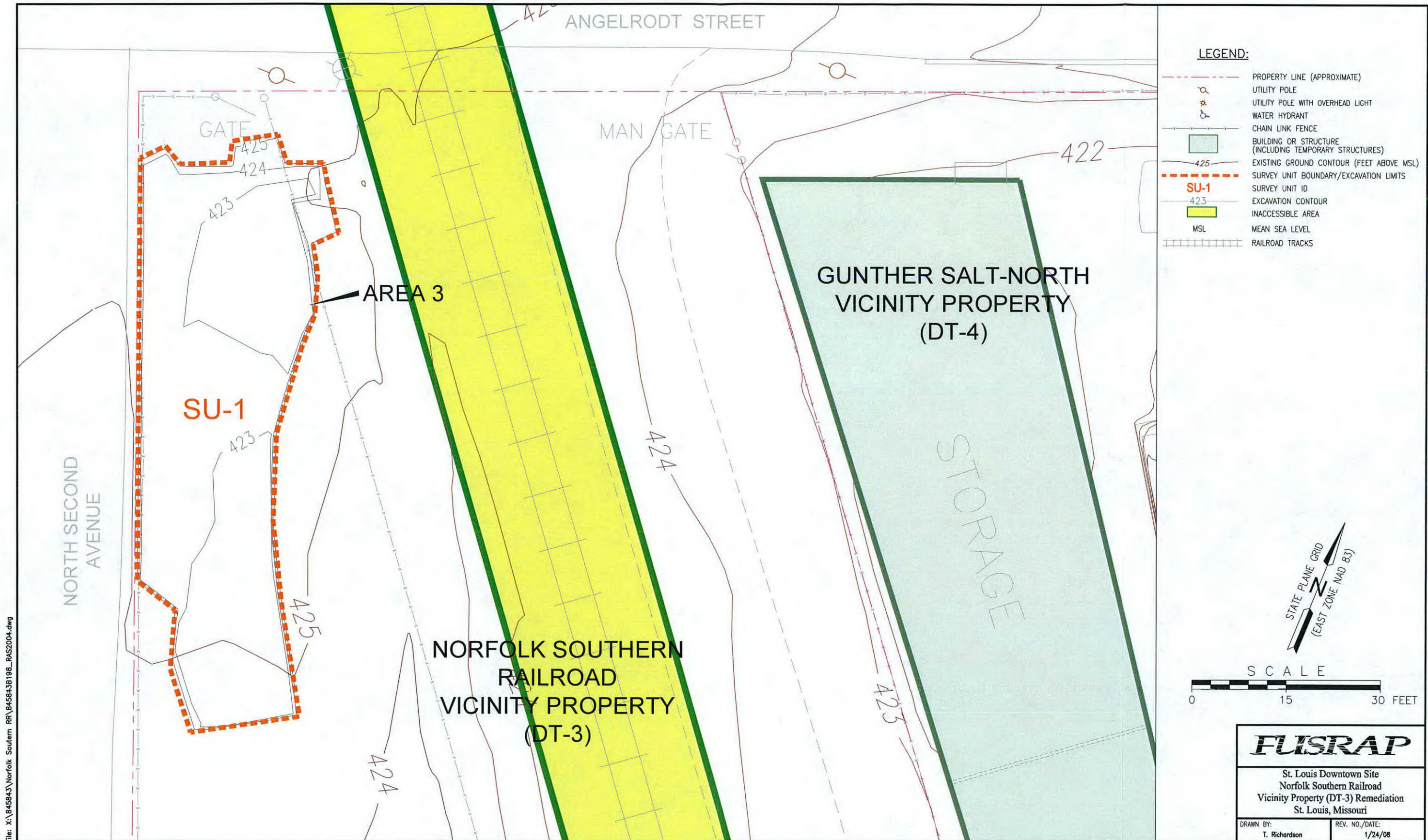


Figure 3. Tract 1 As-Built Sample Locations/Survey Unit Boundary





File: X:\B45843\Norfolk Southern RR\B45843B198\_R452004.dwg

Figure 4. Tract 2 As-Built Excavation/Survey Unit Boundary



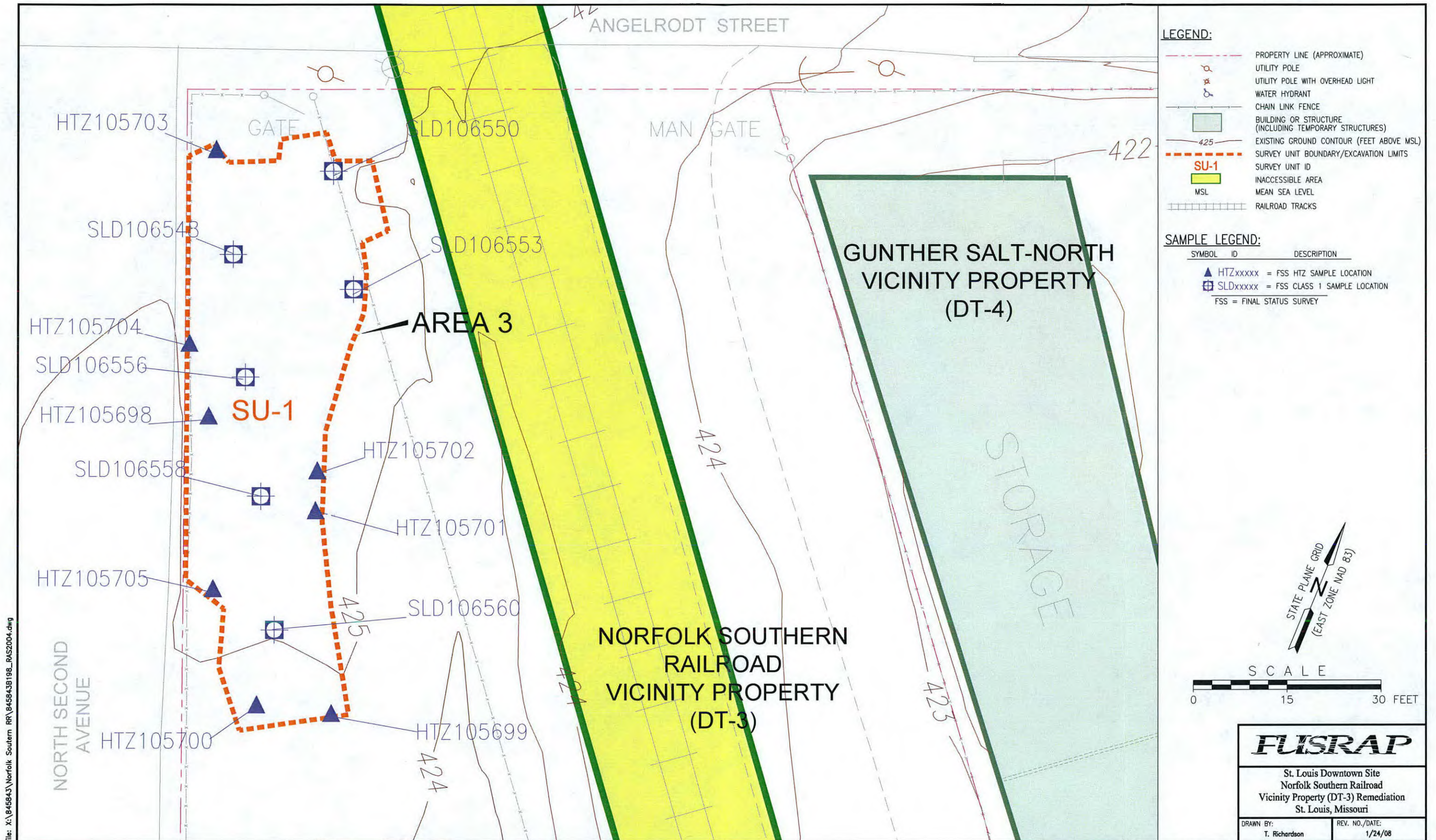
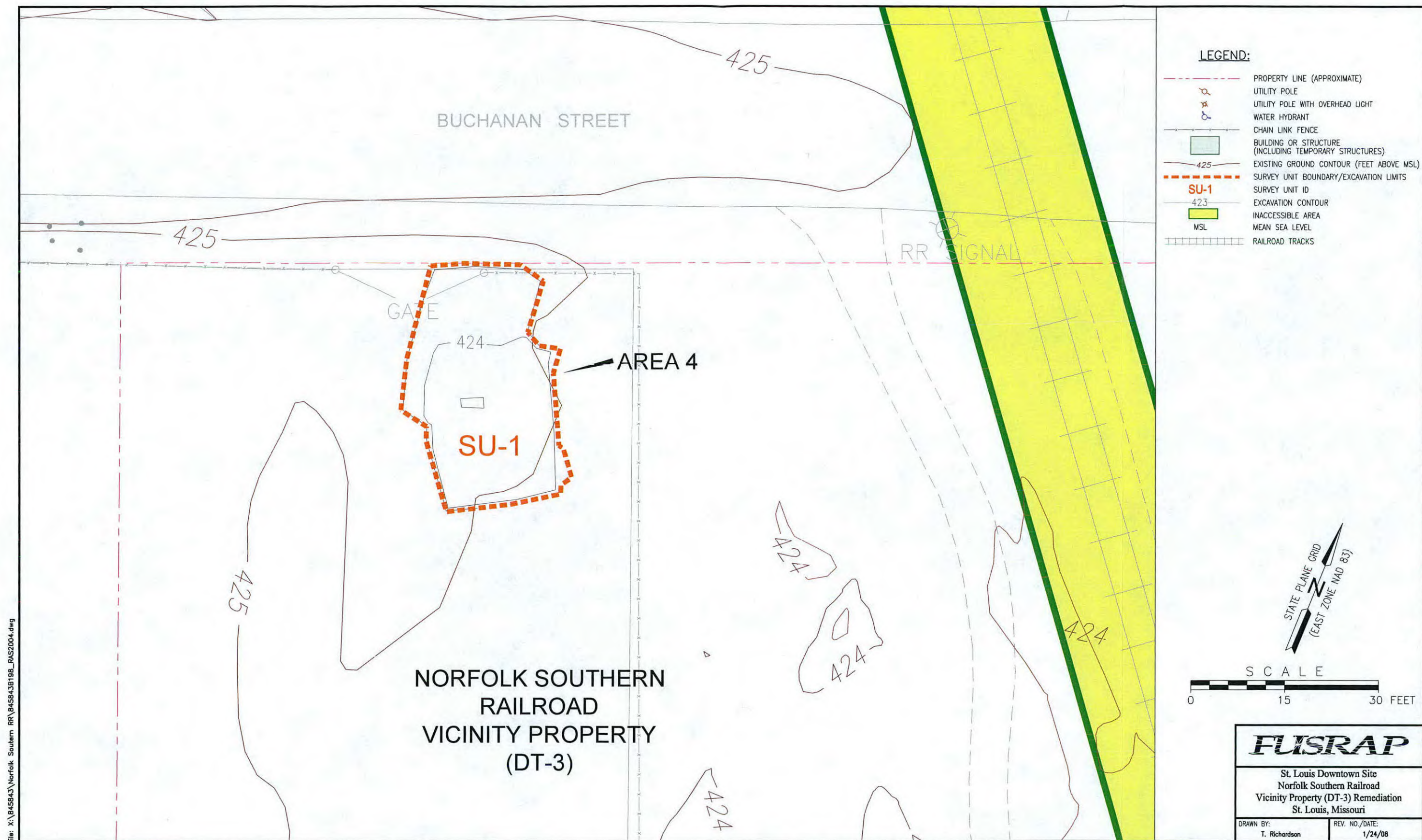


Figure 5. Tract 2 As-Built Sample Locations/Survey Unit Boundary





**Figure 6. Tract 3 As-Built Excavation/Survey Unit Boundary**



File: X:\B458A3\Norfolk Southern RR\B458A3B198\_RAS2004.dwg

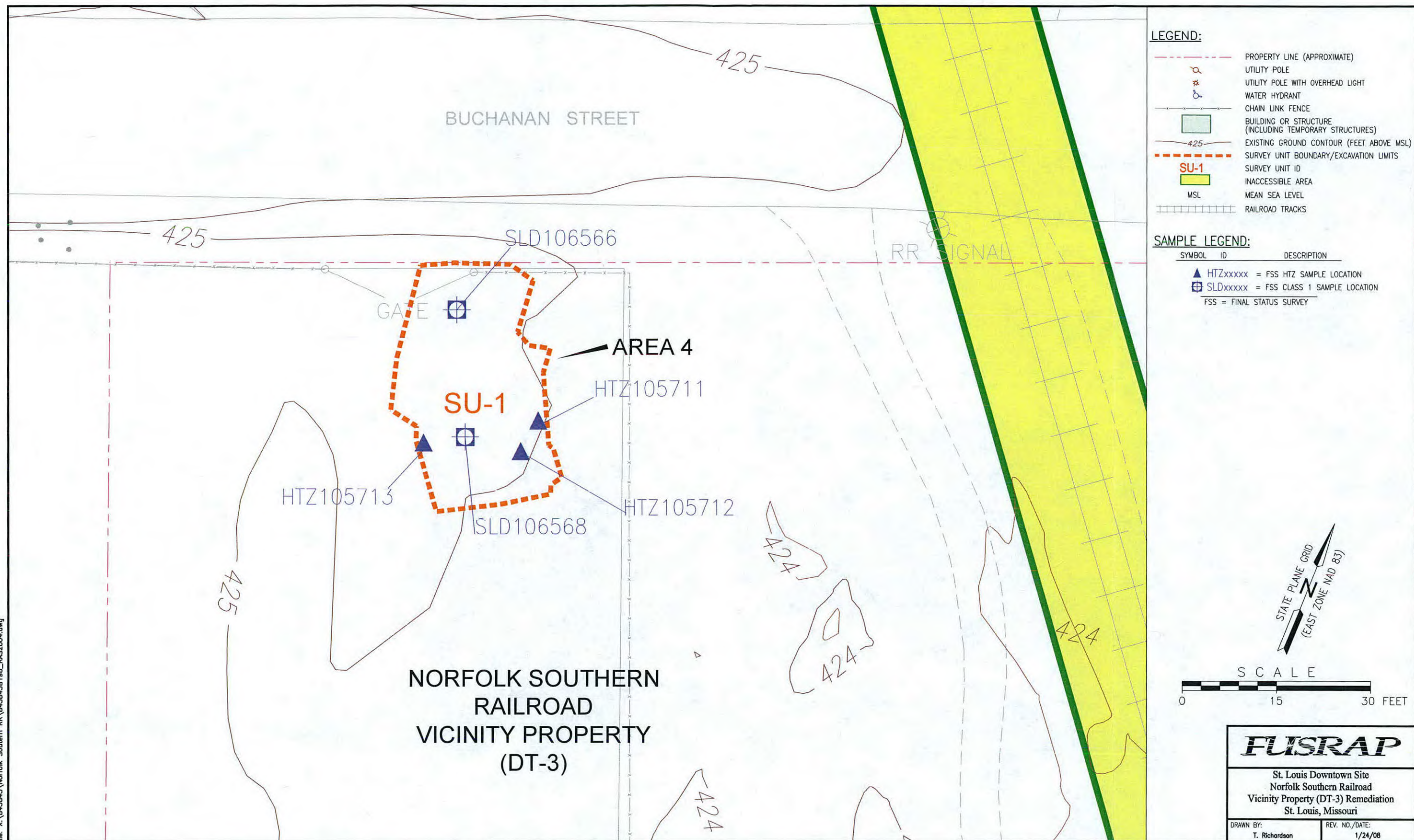


Figure 7. Tract 3 As-Built Sample Locations/Survey Unit Boundary

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD05727        | SLD05769                     | 10/12/00        | 0.8                               | 1.4                |                                  | Actinium-227     | 0.10                                     | 0.10  | 0.15                    | 0.01                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.06  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 4.56                                     | 0.65  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.22                                     | 0.43  | 0.71                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.83                                     | 0.06  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.39                                     | 0.06  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.20                                     | 0.55  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.46                                     | 0.62  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.54                                     | 0.35  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.16                                     | 0.09  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.33                                     | 0.95  | 3.95                    |                                  |
| SLD05728        | SLD05728                     | 10/17/00        | 0                                 | 0.4                | 0.0                              | Actinium-227     | 0.04                                     | 0.09  | 0.14                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.05                                     | 0.11  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.04                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 3.27                                     | 0.51  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.09                                     | 0.39  | 0.61                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.96                                     | 0.07  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.28                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.31                                     | 0.31  | 0.47                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.89                                     | 0.73  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.33                                     | 0.28  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.12                                     | 0.09  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.88                                     | 0.92  | 2.41                    |                                  |
|                 | SLD05770                     | 10/17/00        | 1.4                               | 2.0                |                                  | Actinium-227     | -0.05                                    | 0.36  | 0.57                    | 0.15                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.19                                     | 0.50  | 0.92                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.06  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.07                                     | 2.06  | 2.80                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.06                                     | 1.72  | 3.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.61                                     | 0.26  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.74                                     | 0.23  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.46                                     | 0.70  | 0.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.42                                     | 0.93  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.94                                     | 0.53  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.50                                     | 0.39  | 0.64                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.24                                     | 7.64  | 15.07                   |                                  |
| SLD05729        | SLD05729                     | 10/19/00        | 0                                 | 0.6                | 0.0                              | Actinium-227     | 0.03                                     | 0.08  | 0.13                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.07                                     | 0.03  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 7.84                                     | 0.87  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.09                                    | 0.37  | 0.56                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.68                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.37                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.24                                     | 0.25  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.40                                     | 0.60  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.38                                     | 0.29  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.10                                     | 0.10  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.76                                     | 0.31  | 2.99                    |                                  |



**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of Ratios <sup>5</sup> Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD05729        | SLD05771                     | 10/19/00        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.36                                     | 0.13  | 0.21                    | 0.65                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.09                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.22                                     | 0.04  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 3.41                                     | 0.64  | 0.36                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.29                                     | 0.69  | 1.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 5.13                                     | 0.27  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.36                                     | 0.07  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.83                                     | 0.45  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 9.38                                     | 2.16  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.74                                     | 0.41  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.74                                     | 0.18  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 8.99                                     | 1.17  | 4.23                    |                                  |
| SLD05730        | SLD05730                     | 10/16/00        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.04                                     | 0.10  | 0.16                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.06                                     | 0.13  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.16                                     | 0.05  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 4.05                                     | 0.62  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.12                                    | 0.49  | 0.74                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.73                                     | 0.06  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.46                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.80                                     | 0.42  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.66                                     | 0.64  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.67                                     | 0.39  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.01                                    | 0.10  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.35                                     | 1.38  | 3.00                    |                                  |
|                 | SLD05772                     | 10/16/00        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.11                                     | 0.16  | 0.24                    | 0.15                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.20  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 12.57                                    | 1.52  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.24                                     | 0.72  | 1.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.34                                     | 0.20  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.77                                     | 0.11  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.17                                     | 0.53  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 4.06                                     | 1.14  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.68                                     | 0.38  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.34                                     | 0.20  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.31                                     | 1.70  | 4.12                    |                                  |
| SLD05731        | SLD05731                     | 10/17/00        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.10                                     | 0.10  | 0.17                    | 0.08                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.13  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.13                                     | 0.03  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 5.28                                     | 0.70  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.58                                     | 0.47  | 0.78                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.18                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.46                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.86                                     | 0.49  | 0.46                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.64                                     | 0.69  | 0.51                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.19                                     | 0.22  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.15                                     | 0.13  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 5.44                                     | 3.58  | 3.82                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD05731        | SLD05773                     | 10/17/00        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.12                                     | 0.09  | 0.16                    | 0.17                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.14  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.25                                     | 0.05  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.80                                     | 0.48  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.21                                    | 0.49  | 0.73                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.57                                     | 0.10  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.39                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.00                                     | 0.53  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.92                                     | 1.22  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.86                                     | 0.49  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.24                                     | 0.11  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.42                                     | 1.33  | 2.61                    |                                  |
| SLD05732        | SLD05732                     | 10/17/00        | 1                                 | 1.5                | 1.0                              | Actinium-227     | 0.03                                     | 0.09  | 0.14                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.08                                     | 0.12  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.05                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 6.27                                     | 0.80  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.14                                    | 0.41  | 0.60                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.91                                     | 0.07  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.52                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.63                                     | 0.40  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.81                                     | 0.71  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.70                                     | 0.41  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.18                                     | 0.12  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.78                                     | 0.92  | 2.49                    |                                  |
|                 | SLD05774                     | 10/17/00        | 2.5                               | 3.0                |                                  | Actinium-227     | -0.05                                    | 0.21  | 0.31                    | 0.23                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.28  | 0.44                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.05                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 12.37                                    | 1.52  | 0.41                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.60                                     | 0.91  | 1.42                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 4.32                                     | 0.25  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.37                                     | 0.16  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.59                                     | 0.73  | 0.44                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 4.59                                     | 1.40  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.21                                     | 0.61  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.44                                     | 0.29  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 4.95                                     | 2.29  | 5.38                    |                                  |
| SLD05733        | SLD05733                     | 10/11/00        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.07                                     | 0.09  | 0.15                    | 0.38                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.05                                     | 0.12  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.10                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 3.80                                     | 0.56  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.46                                     | 0.54  | 0.70                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.72                                     | 0.06  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.34                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.14                                     | 0.52  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.83                                     | 1.09  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.83                                     | 0.44  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.14                                     | 0.13  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.29                                     | 0.98  | 2.45                    |                                  |



**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD05733        | SLD05775                     | 10/11/00        | 1.2                                | 1.7                |                                  | Actinium-227     | 0.00                                     | 0.10  | 0.13                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.09                                    | 0.10  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.21                                     | 0.05  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 6.23                                     | 0.81  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.16                                     | 0.36  | 0.58                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.50                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.35                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.47                                     | 0.34  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.19                                     | 0.55  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.48                                     | 0.33  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.08                                     | 0.09  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.55                                     | 0.80  | 2.66                    |                                  |
| SLD05734        | SLD05734                     | 10/16/00        | 0                                  | 0.4                | 0.0                              | Actinium-227     | 0.00                                     | 0.09  | 0.14                    | 0.06                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.12                                     | 0.13  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.20                                     | 0.05  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 3.33                                     | 0.50  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.33                                     | 0.46  | 0.74                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.86                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.35                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.67                                     | 0.40  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.73                                     | 0.67  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.26                                     | 0.24  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.27                                     | 0.14  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 4.35                                     | 1.46  | 2.09                    |                                  |
|                 | SLD05776                     | 10/16/00        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.20                                     | 0.16  | 0.21                    | 0.07                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.21                                     | 0.18  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.72                                    | 1.40  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.46                                     | 0.59  | 0.95                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.81                                     | 0.12  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.64                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.73                                     | 0.41  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.18                                     | 0.77  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.57                                     | 0.36  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.00                                     | 0.14  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 4.30                                     | 1.84  | 3.86                    |                                  |
| SLD05735        | SLD05735                     | 10/12/00        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.05                                     | 0.10  | 0.16                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.13  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.05                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 6.23                                     | 0.83  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.35                                     | 0.41  | 0.75                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.21                                     | 0.08  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.49                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.74                                     | 0.40  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.67                                     | 0.64  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.93                                     | 0.45  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.13                                     | 0.12  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.11                                     | 1.22  | 3.50                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD05735        | SLD05777                     | 10/12/00        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.13                                     | 0.19  | 0.29                    | 0.09                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.10  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 8.60                                     | 1.17  | 0.49                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.26                                     | 0.71  | 1.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.10                                     | 0.17  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.11                                     | 0.13  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.23                                     | 0.54  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.78                                     | 0.89  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.26                                     | 0.55  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.16                                     | 0.09  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.77                                     | 1.24  | 4.97                    |                                  |
| SLD05736        | SLD05736                     | 10/17/00        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.04                                     | 0.11  | 0.17                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.10                                     | 0.18  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.06                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 1.66                                     | 0.36  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.09                                     | 0.51  | 0.81                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.04                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.37                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.45                                     | 0.34  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.83                                     | 0.74  | 0.42                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.46                                     | 0.33  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.05                                    | 0.11  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.01                                     | 1.31  | 2.59                    |                                  |
|                 | SLD05778                     | 10/17/00        | 1.3                                | 1.5                |                                  | Actinium-227     | 0.03                                     | 0.09  | 0.14                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.11  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.04                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 6.75                                     | 0.85  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 1.38                                     | 1.12  | 0.64                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.98                                     | 0.07  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.41                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.53                                     | 0.34  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.02                                     | 0.74  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.41                                     | 0.30  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.03                                     | 0.10  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.10                                     | 1.09  | 2.84                    |                                  |
| SLD05737        | SLD05737                     | 10/11/00        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.17                                     | 0.14  | 0.29                    | 1.21                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.14                                     | 0.31  | 0.48                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.76                                     | 0.14  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 10.65                                    | 1.35  | 0.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.17                                     | 0.85  | 1.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.36                                     | 0.20  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.82                                     | 0.12  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.14                                     | 0.52  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 4.28                                     | 1.18  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.80                                     | 0.42  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 2.09                                     | 0.31  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 38.63                                    | 4.89  | 4.76                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD05737        | SLD05779                     | 10/11/00        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.16                                     | 0.13  | 0.21                    | 0.02                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.11                                     | 0.18  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 15.74                                    | 1.82  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.04                                    | 0.64  | 0.96                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.30                                     | 0.09  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.03                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.90                                     | 0.45  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.29                                     | 0.55  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.18                                     | 0.52  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.11                                     | 0.15  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.95                                     | 1.59  | 3.96                    |                                  |
| SLD05738        | SLD05738                     | 10/12/00        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.02                                     | 0.11  | 0.17                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.01                                    | 0.06  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.24                                     | 0.05  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 4.82                                     | 0.72  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.24                                     | 0.43  | 0.73                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.83                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.40                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.36                                     | 0.28  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.27                                     | 0.54  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.42                                     | 0.29  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.25                                     | 0.16  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.09                                     | 0.98  | 3.85                    |                                  |
|                 | SLD05780                     | 10/12/00        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.40                                     | 0.36  | 0.61                    | 0.18                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.04                                     | 0.21  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.06  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 9.59                                     | 2.08  | 1.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.65                                    | 1.66  | 2.57                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.89                                     | 0.26  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.26                                     | 0.29  | 0.33                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.25                                     | 0.57  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.39                                     | 0.83  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.15                                     | 0.53  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.25                                     | 0.30  | 0.56                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 4.52                                     | 3.31  | 16.14                   |                                  |
| SLD05739        | SLD05739                     | 10/19/00        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.04                                     | 0.06  | 0.09                    | 0.02                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 2.18                                     | 0.36  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.22                                     | 0.27  | 0.44                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.81                                     | 0.05  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.16                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.39                                     | 0.33  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.06                                     | 0.79  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.47                                     | 0.34  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.05                                     | 0.06  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.78                                     | 0.29  | 1.58                    |                                  |

Table C-1  
PSC Metals Vicinity Property (DT-8)  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD05739        | SLD05781                     | 10/19/00        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.17                                     | 0.10  | 0.16                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.08                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 5.18                                     | 0.68  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.36                                     | 0.43  | 0.71                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.82                                     | 0.06  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.44                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.68                                     | 0.43  | 0.45                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.72                                     | 0.70  | 0.50                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.78                                     | 0.44  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.13                                     | 0.14  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.15                                     | 0.41  | 3.25                    |                                  |
| SLD05740        | SLD05740                     | 10/11/00        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.43                                     | 0.24  | 0.33                    | 0.47                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.11                                     | 0.28  | 0.44                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.96                                     | 1.32  | 0.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.50                                     | 0.90  | 1.41                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 4.46                                     | 0.26  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.00                                     | 0.13  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.57                                     | 0.40  | 0.50                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.24                                     | 0.58  | 0.50                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.45                                     | 0.32  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.34                                     | 0.26  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 7.55                                     | 2.84  | 5.16                    |                                  |
|                 | SLD05782                     | 10/11/00        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.09                                     | 0.12  | 0.19                    | 0.02                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.09                                     | 0.14  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.02                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 13.32                                    | 1.57  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.29                                    | 0.55  | 0.80                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.92                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.85                                     | 0.10  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.38                                     | 0.57  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.43                                     | 0.58  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.24                                     | 0.53  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.23                                     | 0.14  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.72                                     | 1.19  | 3.50                    |                                  |
| SLD05741        | SLD05741                     | 10/10/00        | 0                                 | 0.4                | 0.0                              | Actinium-227     | 0.06                                     | 0.08  | 0.12                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.04                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 1.83                                     | 0.40  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.28                                    | 0.39  | 0.56                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.48                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.18                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.54                                     | 0.33  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.34                                     | 0.54  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.36                                     | 0.26  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.04                                     | 0.07  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.63                                     | 0.39  | 2.73                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of Ratios Value <sup>5</sup> |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD05741        | SLD05783                     | 10/10/00        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.24                                     | 0.13  | 0.20                    | 0.46                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.16                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 13.70                                    | 1.47  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.30                                     | 0.53  | 0.83                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.77                                     | 0.11  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.82                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.89                                     | 0.41  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 8.00                                     | 1.72  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.91                                     | 0.42  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.22                                     | 0.14  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 4.00                                     | 0.74  | 3.42                    |                                  |
| SLD05742        | SLD05742                     | 10/11/00        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.04                                     | 0.11  | 0.17                    | 0.12                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.08                                    | 0.15  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.24                                     | 0.05  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 8.19                                     | 1.01  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.59                                     | 0.48  | 0.79                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.11                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.41                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.54                                     | 0.34  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.31                                     | 0.56  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.29                                     | 0.25  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.44                                     | 0.13  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 7.37                                     | 1.87  | 2.98                    |                                  |
|                 | SLD05784                     | 10/11/00        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.20                                     | 0.18  | 0.28                    | 0.19                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.25                                     | 0.28  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.97                                    | 1.43  | 0.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.46                                     | 0.81  | 1.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.32                                     | 0.20  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.23                                     | 0.14  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.37                                     | 0.60  | 0.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 4.14                                     | 1.17  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.15                                     | 0.53  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.30                                     | 0.27  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.51                                     | 2.32  | 5.15                    |                                  |
| SLD05743        | SLD05743                     | 10/11/00        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.34                                     | 0.30  | 0.64                    | 0.67                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.26                                     | 0.59  | 0.98                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.29                                     | 0.13  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.82                                    | 2.33  | 1.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.55                                    | 1.99  | 3.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.07                                     | 0.29  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.57                                     | 0.34  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.38                                     | 0.59  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.99                                     | 1.14  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.50                                     | 0.62  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.48                                     | 0.45  | 0.63                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 14.59                                    | 6.28  | 16.12                   |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD05743        | SLD05785                     | 10/11/00        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.10                                     | 0.14  | 0.22                    | 0.02                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.05                                     | 0.17  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 12.10                                    | 1.52  | 0.36                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.13                                     | 0.62  | 0.97                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.15                                     | 0.09  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.90                                     | 0.12  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.09                                     | 0.50  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.68                                     | 0.65  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.73                                     | 0.40  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.07                                     | 0.14  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.74                                     | 2.35  | 4.40                    |                                  |
| SLD05744        | SLD05744                     | 10/11/00        | 0                                 | 0.4                | 0.0                              | Actinium-227     | 0.27                                     | 0.27  | 0.53                    | 0.49                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.14                                    | 0.52  | 0.82                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.46                                     | 0.15  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.79                                    | 1.97  | 0.97                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.75                                     | 1.71  | 2.82                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.09                                     | 0.22  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.96                                     | 0.22  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.89                                     | 0.46  | 0.39                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.46                                     | 0.80  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.86                                     | 0.43  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.68                                     | 0.36  | 0.56                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 20.53                                    | 6.14  | 11.81                   |                                  |
|                 | SLD05786                     | 10/11/00        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.09                                     | 0.43  | 0.68                    | 0.35                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.42                                     | 0.61  | 1.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.11                                    | 0.09  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.96                                    | 2.48  | 1.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 1.49                                     | 2.60  | 3.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.85                                     | 0.34  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.20                                     | 0.30  | 0.46                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.77                                     | 0.76  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 5.15                                     | 1.51  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.34                                     | 0.65  | 0.36                    |                                  |
| SLD05745        | SLD05745                     | 11/02/00        | 0                                 | 0.5                | 0.0                              | Uranium-235      | 0.11                                     | 0.42  | 0.71                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 7.26                                     | 6.61  | 14.96                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Actinium-227     | 0.36                                     | 0.21  | 0.34                    | 0.05                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.05  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.94                                    | 1.67  | 0.61                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.35                                    | 0.83  | 1.42                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.96                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.66                                     | 0.13  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.36                                     | 0.66  | 0.52                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.90                                     | 0.78  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.00                                     | 0.53  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.08                                     | 0.18  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.62                                     | 0.88  | 8.07                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD05745        | SLD05787                     | 11/02/00        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.31                                     | 0.13  | 0.21                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.03                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 12.18                                    | 1.35  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.06                                     | 0.50  | 0.83                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.31                                     | 0.09  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.80                                     | 0.09  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.93                                     | 0.49  | 0.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.62                                     | 0.66  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.06                                     | 0.51  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.25                                     | 0.12  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.31                                     | 0.71  | 3.58                    |                                  |
| SLD05912        | SLD05912                     | 08/14/00        | 0.3                                | 0.8                | 0.3                              | Actinium-227     | 0.09                                     | 0.13  | 0.20                    | 0.63                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.09                                     | 0.08  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 13.23                                    | 1.45  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.10                                    | 0.55  | 0.80                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.48                                     | 0.09  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.77                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.77                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -0.02                                    | 5.82  | 10.07                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.77                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.11                                     | 0.15  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.48                                     | 0.98  | 3.80                    |                                  |
|                 | SLD05930                     | 08/14/00        | 1.8                                | 2.3                |                                  | Actinium-227     | 0.33                                     | 0.14  | 0.22                    | 0.24                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.03                                     | 0.08  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.02                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 15.35                                    | 1.66  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.09                                    | 0.60  | 0.87                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.32                                     | 0.09  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.87                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.87                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.37                                     | 6.42  | 10.74                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.87                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.07                                     | 0.12  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.44                                     | 0.93  | 4.29                    |                                  |
| SLD05913        | SLD05913                     | 08/14/00        | 0.3                                | 0.8                | 0.3                              | Actinium-227     | 0.08                                     | 0.12  | 0.19                    | 0.66                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.08                                     | 0.11  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.20                                     | 0.04  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 6.21                                     | 0.85  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.07                                    | 0.53  | 0.78                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.19                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.39                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.39                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -0.26                                    | 6.22  | 9.71                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.39                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.51                                     | 0.17  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 5.52                                     | 1.26  | 3.56                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD05913        | SLD05931                     | 08/14/00        | 1.8                               | 2.3                |                                  | Actinium-227     | 0.08                                     | 0.07  | 0.13                    | 0.07                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 3.83                                     | 0.57  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.15                                    | 0.38  | 0.54                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.77                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.21                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.21                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -3.98                                    | 3.74  | 5.92                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.21                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.07                                     | 0.08  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.39                                     | 0.68  | 2.62                    |                                  |
| SLD06164        | SLD06164                     | 11/08/00        | 0.5                               | 1.0                | 0.5                              | Actinium-227     | 0.06                                     | 0.05  | 0.14                    | 0.02                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.02                                    | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.03                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 4.20                                     | 0.59  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.40                                     | 0.39  | 0.66                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.10                                     | 0.07  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.37                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.15                                     | 0.54  | 0.42                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.25                                     | 0.78  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.11                                     | 0.51  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.07                                     | 0.08  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.00                                     | 0.69  | 2.87                    |                                  |
|                 | SLD06188                     | 11/08/00        | 1.5                               | 2.0                |                                  | Actinium-227     | -0.01                                    | 0.12  | 0.18                    | 0.01                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.07  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.07                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 8.63                                     | 1.06  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.17                                    | 0.54  | 0.83                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.33                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.60                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.81                                     | 0.44  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.69                                     | 0.66  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.72                                     | 0.40  | 0.14                    |                                  |
| SLD06165        | SLD06165                     | 11/13/00        | 0                                 | 0.5                | 0.0                              | Uranium-235      | 0.15                                     | 0.17  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.02                                     | 1.00  | 4.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Actinium-227     | 0.00                                     | 0.09  | 0.13                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.05                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.72                                     | 0.49  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.52                                     | 0.68  | 0.66                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.71                                     | 0.06  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.18                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.87                                     | 0.51  | 0.45                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.46                                     | 0.65  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.42                                     | 0.33  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.02                                     | 0.08  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.52                                     | 0.59  | 2.96                    |                                  |



**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD06165        | SLD06189                     | 11/13/00        | 1.7                               | 2.2                |                                  | Actinium-227     | 0.32                                     | 0.19  | 0.30                    | 0.24                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.06                                    | 0.11  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.03                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.75                                     | 1.24  | 0.53                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.90                                     | 0.81  | 1.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.39                                     | 0.19  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.12                                     | 0.13  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.68                                     | 0.76  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 4.96                                     | 1.49  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.32                                     | 0.64  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.38                                     | 0.20  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.23                                     | 1.40  | 5.09                    |                                  |
| SLD06166        | SLD06166                     | 11/13/00        | 0.6                               | 1.1                | 0.6                              | Actinium-227     | 0.03                                     | 0.07  | 0.11                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.44                                     | 0.38  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.05                                    | 0.27  | 0.48                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.79                                     | 0.05  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.11                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.40                                     | 0.32  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.63                                     | 0.69  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.17                                     | 0.20  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.08                                     | 0.07  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.75                                     | 0.55  | 2.60                    |                                  |
|                 | SLD06190                     | 11/13/00        | 2.2                               | 2.7                |                                  | Actinium-227     | 0.12                                     | 0.12  | 0.18                    | 0.01                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.02                                    | 0.07  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 12.11                                    | 1.35  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.12                                     | 0.46  | 0.74                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.16                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.65                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.83                                     | 0.49  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.12                                     | 0.56  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.69                                     | 0.43  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.14                                     | 0.14  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.52                                     | 0.67  | 3.99                    |                                  |
| SLD06167        | SLD06167                     | 11/13/00        | 0.7                               | 1.2                | 0.7                              | Actinium-227     | 0.03                                     | 0.07  | 0.12                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.09  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.03                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 4.18                                     | 0.58  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.21                                     | 0.33  | 0.53                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.77                                     | 0.06  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.24                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.66                                     | 0.36  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.95                                     | 0.45  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.47                                     | 0.32  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.04                                     | 0.08  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.31                                     | 1.07  | 2.53                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD06167        | SLD06191                     | 11/13/00        | 2.2                               | 2.7                |                                  | Actinium-227     | 0.11                                     | 0.11  | 0.18                    | 0.01                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.14  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.12                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 13.37                                    | 1.53  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.02                                    | 0.75  | 0.82                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.04                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.78                                     | 0.09  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.16                                     | 0.52  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.35                                     | 0.55  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.47                                     | 0.31  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.03                                    | 0.11  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.82                                     | 1.50  | 3.62                    |                                  |
| SLD06168        | SLD06168                     | 11/08/00        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.06                                     | 0.05  | 0.10                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.01                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 1.08                                     | 0.30  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.14                                    | 0.26  | 0.44                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.61                                     | 0.04  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.23                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.60                                     | 0.38  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.04                                     | 0.50  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.52                                     | 0.34  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.04                                     | 0.06  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.77                                     | 0.45  | 2.11                    |                                  |
|                 | SLD06192                     | 11/08/00        | 1.3                               | 1.8                |                                  | Actinium-227     | 0.06                                     | 0.05  | 0.09                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.02                                    | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 1.60                                     | 0.29  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.03                                    | 0.30  | 0.48                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.52                                     | 0.04  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.17                                     | 0.04  | 0.05                    |                                  |
| SLD06169        | SLD06169                     | 11/14/00        | 0.4                               | 0.9                | 0.4                              | Thorium-228      | 0.74                                     | 0.40  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.77                                     | 0.41  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.28                                     | 0.24  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.08                                     | 0.07  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.89                                     | 0.54  | 2.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Actinium-227     | 0.05                                     | 0.06  | 0.10                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.02                                    | 0.08  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 3.10                                     | 0.45  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.04                                     | 0.29  | 0.51                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.44                                     | 0.04  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.13                                     | 0.03  | 0.05                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD06169        | SLD06193                     | 11/14/00        | 1.9                               | 2.4                |                                  | Actinium-227     | 0.07                                     | 0.12  | 0.18                    | 0.01                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.08                                     | 0.15  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.07                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.11                                     | 1.14  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.09                                     | 0.54  | 0.83                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.07                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.54                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.75                                     | 0.42  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.65                                     | 0.63  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.81                                     | 0.42  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.16                                     | 0.11  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.17                                     | 1.32  | 3.89                    |                                  |
| SLD06170        | SLD06170                     | 11/14/00        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.04                                     | 0.06  | 0.10                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.08  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.01                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.72                                     | 0.42  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.14                                     | 0.26  | 0.43                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.60                                     | 0.05  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.13                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.30                                     | 0.25  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.83                                     | 0.43  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.14                                     | 0.17  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.02                                     | 0.07  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.58                                     | 0.78  | 2.37                    |                                  |
|                 | SLD06194                     | 11/14/00        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.03                                     | 0.09  | 0.15                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.15                                     | 0.13  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.06                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 11.21                                    | 1.31  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.14                                     | 0.46  | 0.71                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.86                                     | 0.07  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.57                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.91                                     | 0.48  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.56                                     | 0.63  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.57                                     | 0.36  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.20                                     | 0.15  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.46                                     | 1.22  | 3.29                    |                                  |
| SLD06172        | SLD06172                     | 10/31/00        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.00                                     | 0.08  | 0.13                    | 0.03                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 5.84                                     | 0.74  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.24                                     | 0.44  | 0.64                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.60                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.25                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.50                                     | 0.34  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.25                                     | 0.55  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.23                                     | 0.55  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.07                                     | 0.09  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.42                                     | 0.67  | 3.30                    |                                  |

Table C-1  
PSC Metals Vicinity Property (DT-8)  
Pre-Design Investigation Radiological Data Results

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD06172        | SLD06197                     | 10/31/00        | 1.8                               | 2.3                |                                  | Actinium-227     | 0.01                                     | 0.11  | 0.16                    | 0.01                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.06  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.05                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 11.61                                    | 1.29  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.06                                     | 0.50  | 0.79                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.94                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.73                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.00                                     | 0.53  | 0.43                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.57                                     | 0.67  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.05                                     | 0.53  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.03                                    | 0.10  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.57                                     | 0.76  | 4.29                    |                                  |
| SLD06173        | SLD06173                     | 11/07/00        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.08                                     | 0.06  | 0.09                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.01                                    | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.02                                     | 0.01  | 0.01                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 1.96                                     | 0.28  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.23                                    | 0.23  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.50                                     | 0.04  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.22                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.40                                     | 0.32  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.29                                     | 0.60  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.41                                     | 0.32  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.05                                     | 0.05  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.41                                     | 0.22  | 1.70                    |                                  |
|                 | SLD06196                     | 11/07/00        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.16                                     | 0.07  | 0.11                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 6.13                                     | 0.69  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.13                                     | 0.21  | 0.43                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.72                                     | 0.05  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.32                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.87                                     | 0.49  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.84                                     | 0.76  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.66                                     | 0.43  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.00                                     | 0.08  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.65                                     | 0.32  | 2.00                    |                                  |
| SLD06174        | SLD06174                     | 11/07/00        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.13                                     | 0.09  | 0.14                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.14                                     | 0.03  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 3.99                                     | 0.56  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.02                                    | 0.40  | 0.62                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.11                                     | 0.08  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.33                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.62                                     | 0.40  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.96                                     | 0.76  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.62                                     | 0.40  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.09                                     | 0.10  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.19                                     | 0.45  | 2.89                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD06174        | SLD06198                     | 11/07/00        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.38                                     | 0.14  | 0.21                    | 0.02                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 15.41                                    | 1.62  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.05                                    | 0.52  | 0.80                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.58                                     | 0.10  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.95                                     | 0.10  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.40                                     | 0.68  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.07                                     | 0.86  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.83                                     | 0.51  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.05                                     | 0.15  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.54                                     | 0.62  | 3.78                    |                                  |
| SLD06175        | SLD06175                     | 10/31/00        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.05                                     | 0.11  | 0.16                    | 0.04                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.01                                    | 0.06  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.10                                     | 0.04  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 6.53                                     | 0.83  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.27                                     | 0.47  | 0.76                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.32                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.47                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.85                                     | 0.45  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.16                                     | 0.76  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.01                                     | 0.48  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.28                                     | 0.15  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.46                                     | 0.85  | 2.65                    |                                  |
|                 | SLD06199                     | 10/31/00        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.14                                     | 0.12  | 0.21                    | 0.04                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.08  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 17.05                                    | 1.80  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.30                                     | 0.58  | 0.95                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.08                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.14                                     | 0.12  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.08                                     | 0.50  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.44                                     | 0.58  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.34                                     | 0.56  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.16                                     | 0.15  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.33                                     | 1.02  | 5.12                    |                                  |
| SLD06176        | SLD06176                     | 11/07/00        | 0                                 | 0.6                | 0.0                              | Actinium-227     | 0.35                                     | 0.16  | 0.24                    | 0.60                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.05                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.39                                     | 0.06  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 11.15                                    | 1.28  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.43                                     | 0.61  | 0.97                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.88                                     | 0.13  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.73                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.11                                     | 0.59  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 4.49                                     | 1.38  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.66                                     | 0.44  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.33                                     | 0.15  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 5.97                                     | 0.93  | 4.27                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD06176        | SLD06200                     | 11/07/00        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.47                                     | 0.16  | 0.24                    | 0.10                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.03                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 14.61                                    | 1.53  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.05                                    | 0.62  | 0.93                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.80                                     | 0.17  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.27                                     | 0.13  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.69                                     | 0.68  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.94                                     | 0.97  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.32                                     | 0.60  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.00                                     | 0.15  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.85                                     | 0.81  | 4.30                    |                                  |
| SLD06177        | SLD06177                     | 11/07/00        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.16                                     | 0.19  | 0.30                    | 0.03                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.01                                    | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.05                                     | 0.03  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 4.93                                     | 1.02  | 0.44                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.02                                    | 0.87  | 1.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.39                                     | 0.08  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.41                                     | 0.11  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.71                                     | 0.43  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.23                                     | 0.59  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.64                                     | 0.41  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.13                                     | 0.15  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.66                                     | 0.73  | 5.68                    |                                  |
|                 | SLD06201                     | 11/07/00        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.15                                     | 0.14  | 0.22                    | 0.02                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.07                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 5.62                                     | 0.83  | 0.33                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.62                                    | 0.51  | 0.82                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.94                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.40                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.62                                     | 0.42  | 0.57                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.52                                     | 0.60  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.65                                     | 0.37  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.21                                     | 0.15  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.30                                     | 0.53  | 4.59                    |                                  |
| SLD06178        | SLD06178                     | 11/07/00        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.14                                     | 0.07  | 0.11                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 3.06                                     | 0.41  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.07                                     | 0.30  | 0.47                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.76                                     | 0.05  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.34                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.83                                     | 0.50  | 0.33                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.62                                     | 0.72  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.78                                     | 0.47  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.06                                     | 0.09  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.82                                     | 0.31  | 1.82                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD06178        | SLD06202                     | 11/07/00        | 1.7                                | 2.4                |                                  | Actinium-227     | 0.23                                     | 0.11  | 0.17                    | 0.38                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.28                                     | 0.05  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 3.65                                     | 0.56  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.08                                     | 0.46  | 0.71                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.82                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.66                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.01                                     | 0.49  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 7.51                                     | 1.75  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.22                                     | 0.53  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.12                                     | 0.11  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.76                                     | 0.40  | 2.95                    |                                  |
| SLD06179        | SLD06179                     | 10/10/00        | 0                                  | 0.4                | 0.0                              | Actinium-227     | 0.06                                     | 0.06  | 0.10                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.01  | 0.01                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 2.49                                     | 0.37  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.07                                     | 0.28  | 0.44                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.79                                     | 0.05  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.21                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.22                                     | 0.25  | 0.40                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.65                                     | 0.63  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.24                                     | 0.22  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.09                                     | 0.08  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.74                                     | 0.31  | 2.17                    |                                  |
|                 | SLD06203                     | 10/10/00        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.12                                     | 0.07  | 0.18                    | 0.09                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.03                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 6.48                                     | 0.81  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.26                                    | 0.51  | 0.75                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.33                                     | 0.13  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.54                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.67                                     | 0.39  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.75                                     | 0.87  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.69                                     | 0.38  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.26                                     | 0.12  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.37                                     | 0.64  | 2.99                    |                                  |
| SLD06180        | SLD06180                     | 11/08/00        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.00                                     | 0.10  | 0.16                    | 0.09                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.06  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.05                                     | 0.03  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 4.07                                     | 0.56  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.14                                     | 0.41  | 0.67                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.31                                     | 0.08  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.45                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.55                                     | 0.38  | 0.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.39                                     | 0.84  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.64                                     | 0.39  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.05                                     | 0.12  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.61                                     | 0.90  | 3.10                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD06180        | SLD06204                     | 11/08/00        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.07                                     | 0.12  | 0.17                    | 0.03                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.06                                     | 0.07  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 6.91                                     | 0.92  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.23                                    | 0.50  | 0.76                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.66                                     | 0.10  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.58                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.54                                     | 0.60  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.28                                     | 0.76  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.51                                     | 0.33  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.09                                     | 0.13  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.81                                     | 1.11  | 3.28                    |                                  |
| SLD06181        | SLD06181                     | 11/13/00        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.04                                     | 0.07  | 0.11                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.29                                     | 0.39  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.18                                    | 0.31  | 0.53                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.83                                     | 0.05  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.10                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.34                                     | 0.34  | 0.50                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.49                                     | 0.66  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.23                                     | 0.24  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.08                                     | 0.07  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.04                                     | 0.51  | 2.31                    |                                  |
|                 | SLD06205                     | 11/13/00        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.03                                     | 0.11  | 0.17                    | 0.01                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.06  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 8.96                                     | 1.07  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.40                                     | 0.47  | 0.79                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.71                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.61                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.92                                     | 0.52  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.54                                     | 0.68  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.86                                     | 0.49  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.15                                     | 0.12  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.22                                     | 0.90  | 3.72                    |                                  |
| SLD06182        | SLD06182                     | 11/13/00        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.05                                     | 0.09  | 0.14                    | 0.07                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.05                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 3.94                                     | 0.53  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.72                                     | 0.50  | 0.63                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.12                                     | 0.07  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.26                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.85                                     | 0.52  | 0.43                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.27                                     | 0.89  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.33                                     | 0.30  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.14                                     | 0.10  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.28                                     | 0.69  | 2.85                    |                                  |



**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of Ratios <sup>5</sup> Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD06182        | SLD06206                     | 11/13/00        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.12                                     | 0.25  | 0.38                    | 0.22                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.10                                     | 0.13  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 12.33                                    | 1.92  | 0.70                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.35                                     | 0.94  | 1.75                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.18                                     | 0.17  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.03                                     | 0.18  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.57                                     | 0.67  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 3.89                                     | 1.17  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.70                                     | 0.69  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.08                                     | 0.20  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.95                                     | 1.43  | 8.06                    |                                  |
| SLD06212        | SLD06212                     | 11/14/00        | 0                                  | 0.6                | 0.0                              | Actinium-227     | 0.06                                     | 0.06  | 0.09                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.01                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 0.61                                     | 0.17  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.05                                     | 0.24  | 0.38                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.50                                     | 0.04  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.14                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.14                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -0.27                                    | 1.38  | 2.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.14                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.10                                     | 0.06  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.39                                     | 0.23  | 1.51                    |                                  |
|                 | SLD06237                     | 11/14/00        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.55                                     | 0.14  | 0.21                    | 0.13                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.05                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 13.11                                    | 1.40  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.49                                     | 0.56  | 0.87                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.35                                     | 0.14  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.96                                     | 0.10  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.96                                     | 0.10  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.19                                     | 3.47  | 6.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.96                                     | 0.10  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.43                                     | 0.16  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 4.30                                     | 0.75  | 3.24                    |                                  |
| SLD06213        | SLD06213                     | 10/26/00        | 0                                  | 0.6                | 0.0                              | Actinium-227     | 0.47                                     | 0.13  | 0.21                    | 1.82                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.21                                     | 0.04  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 6.25                                     | 0.79  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.35                                     | 0.58  | 0.89                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 4.35                                     | 0.23  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.59                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.58                                     | 0.41  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 10.50                                    | 2.57  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.90                                     | 0.51  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.48                                     | 0.14  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 6.83                                     | 0.88  | 3.44                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD06213        | SLD06238                     | 10/26/00        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.53                                     | 0.14  | 0.25                    | 0.71                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.05                                     | 0.06  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 11.46                                    | 1.29  | 0.44                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.55                                     | 0.83  | 1.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 8.05                                     | 0.41  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.87                                     | 0.12  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.87                                     | 0.12  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 10.79                                    | 6.47  | 8.92                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.87                                     | 0.12  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.60                                     | 0.24  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 7.64                                     | 1.26  | 5.44                    |                                  |
| SLD06215        | SLD06215                     | 10/26/00        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.31                                     | 0.12  | 0.17                    | 1.28                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.13                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 6.74                                     | 0.82  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.30                                     | 0.56  | 0.86                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.97                                     | 0.21  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.64                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.99                                     | 0.54  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 8.01                                     | 2.04  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.72                                     | 0.45  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.48                                     | 0.18  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 4.85                                     | 0.66  | 3.29                    |                                  |
|                 | SLD06240                     | 10/26/00        | 1.5                               | 2.0                |                                  | Actinium-227     | 1.31                                     | 0.22  | 0.33                    | 1.08                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.11                                     | 0.07  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.02                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.97                                     | 1.30  | 0.61                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 1.36                                     | 1.16  | 1.77                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 17.32                                    | 0.83  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.77                                     | 0.12  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.77                                     | 0.12  | 0.15                    |                                  |
| SLD06216        | SLD06216                     | 10/26/00        | 0.5                               | 1.1                | 0.5                              | Actinium-227     | 0.03                                     | 0.07  | 0.10                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.07                                     | 0.02  | 0.01                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 4.18                                     | 0.54  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.04                                    | 0.28  | 0.42                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.45                                     | 0.04  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.22                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.22                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -0.92                                    | 1.63  | 2.51                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.22                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.11                                     | 0.07  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.57                                     | 0.29  | 2.21                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD06216        | SLD06241                     | 10/26/00        | 2                                 | 2.5                |                                  | Actinium-227     | 0.24                                     | 0.14  | 0.19                    | 0.15                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.05                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 4.22                                     | 0.59  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.07                                     | 0.54  | 0.82                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 4.27                                     | 0.23  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.24                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.24                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.18                                     | 3.43  | 5.69                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.24                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.36                                     | 0.15  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.92                                     | 0.66  | 3.56                    |                                  |
| SLD06217        | SLD06217                     | 10/26/00        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.34                                     | 0.12  | 0.19                    | 0.27                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.10                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 4.41                                     | 0.68  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.17                                     | 0.57  | 0.88                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.53                                     | 0.19  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.44                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.44                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 4.43                                     | 3.58  | 5.73                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.44                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.38                                     | 0.15  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 5.50                                     | 0.81  | 3.18                    |                                  |
|                 | SLD06242                     | 10/26/00        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.04                                     | 0.06  | 0.00                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.01                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.20                                     | 0.37  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.25                                     | 0.28  | 0.47                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.37                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.23                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.23                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.84                                     | 1.47  | 2.54                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.23                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.00                                     | 0.06  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.53                                     | 0.24  | 1.72                    |                                  |
| SLD06218        | SLD06218                     | 10/23/00        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.09                                     | 0.10  | 0.15                    | 0.06                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.05                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 5.33                                     | 0.69  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.01                                     | 0.44  | 0.67                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.58                                     | 0.10  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.52                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.52                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 4.25                                     | 2.63  | 4.52                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.52                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.21                                     | 0.11  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.14                                     | 0.46  | 2.65                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD06218        | SLD06243                     | 10/23/00        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.17                                     | 0.12  | 0.19                    | 0.07                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.05                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 8.29                                     | 1.00  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.29                                     | 0.54  | 0.84                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.94                                     | 0.12  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.76                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.76                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.01                                     | 3.59  | 5.73                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.76                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.23                                     | 0.12  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.13                                     | 0.61  | 3.89                    |                                  |
| SLD06219        | SLD06219                     | 10/26/00        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.03                                     | 0.07  | 0.11                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.03                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 2.87                                     | 0.41  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.10                                     | 0.33  | 0.51                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.82                                     | 0.06  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.29                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.29                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -0.08                                    | 1.92  | 3.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.29                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.12                                     | 0.08  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.92                                     | 0.34  | 2.03                    |                                  |
|                 | SLD06244                     | 10/26/00        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.61                                     | 0.09  | 0.12                    | 0.05                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 2.47                                     | 0.38  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.64                                     | 0.37  | 0.56                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.08                                     | 0.12  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.26                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.26                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.87                                     | 3.28  | 4.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.26                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.62                                     | 0.13  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.62                                     | 0.54  | 2.47                    |                                  |
| SLD06220        | SLD06220                     | 10/26/00        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.46                                     | 0.37  | 0.57                    | 1.44                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.05                                     | 0.12  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.54                                     | 0.12  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 6.88                                     | 1.47  | 1.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.06                                     | 1.73  | 2.64                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 8.60                                     | 0.47  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.69                                     | 0.19  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.69                                     | 0.19  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 5.82                                     | 9.83  | 15.72                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.69                                     | 0.19  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 1.06                                     | 0.40  | 0.51                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 14.49                                    | 2.31  | 11.42                   |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of Ratios Value <sup>5</sup> |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD06220        | SLD06245                     | 10/26/00        | 1.4                               | 2.0                |                                  | Actinium-227     | 0.00                                     | 0.09  | 0.23                    | 0.22                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.83                                    | 1.17  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.17                                    | 0.64  | 0.95                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.94                                     | 0.21  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.05                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.05                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -2.68                                    | 4.47  | 6.87                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.05                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.45                                     | 0.17  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 7.11                                     | 1.01  | 3.87                    |                                  |
| SLD06221        | SLD06221                     | 10/17/00        | 0                                 | 0.5                | 0.0                              | Actinium-227     | -0.02                                    | 0.08  | 0.12                    | 0.20                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 3.66                                     | 0.53  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.11                                    | 0.34  | 0.52                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.82                                     | 0.06  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.34                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.34                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.69                                     | 3.41  | 5.83                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.34                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.22                                     | 0.12  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.23                                     | 0.53  | 2.98                    |                                  |
|                 | SLD06246                     | 10/17/00        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.37                                     | 0.14  | 0.24                    | 0.58                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.10                                     | 0.11  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.02                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 3.12                                     | 0.59  | 0.43                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.08                                    | 0.72  | 1.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 5.30                                     | 0.26  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.34                                     | 0.08  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.34                                     | 0.08  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.90                                     | 8.77  | 13.90                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.34                                     | 0.08  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 1.21                                     | 0.23  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 13.55                                    | 1.87  | 4.82                    |                                  |
| SLD06222        | SLD06222                     | 10/30/00        | 0                                 | 0.5                | 0.0                              | Actinium-227     | -0.05                                    | 0.09  | 0.13                    | 0.24                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 3.09                                     | 0.46  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.13                                     | 0.35  | 0.57                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.83                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.34                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.34                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.86                                     | 3.82  | 6.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.34                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.18                                     | 0.13  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.10                                     | 0.58  | 2.55                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD06222        | SLD06247                     | 10/30/00        | 1.1                                | 1.8                |                                  | Actinium-227     | 0.06                                     | 0.09  | 0.13                    | 0.09                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.02                                    | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.03                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 3.41                                     | 0.51  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.20                                     | 0.39  | 0.64                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.78                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.39                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.39                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -0.84                                    | 4.01  | 6.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.39                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.05                                     | 0.12  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.54                                     | 0.76  | 3.49                    |                                  |
| SLD06223        | SLD06223                     | 10/17/00        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.09                                     | 0.11  | 0.17                    | 0.45                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.06  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.11                                     | 0.04  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 4.14                                     | 0.62  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.01                                    | 0.47  | 0.74                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.45                                     | 0.09  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.41                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.41                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -2.53                                    | 5.18  | 8.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.41                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.38                                     | 0.15  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.18                                     | 0.86  | 2.63                    |                                  |
|                 | SLD06248                     | 10/17/00        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.02                                     | 0.10  | 0.15                    | 0.32                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.09                                     | 0.09  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 1.30                                     | 0.40  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.23                                    | 0.42  | 0.73                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.66                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.15                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.15                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 4.53                                     | 6.41  | 8.69                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.15                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.65                                     | 0.15  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 9.39                                     | 1.20  | 2.91                    |                                  |
| SLD06224        | SLD06224                     | 10/19/00        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.16                                     | 0.16  | 0.24                    | 0.77                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.02                                    | 0.08  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.24                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 5.01                                     | 0.70  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.02                                    | 0.63  | 0.97                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.88                                     | 0.16  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.66                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.66                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -2.34                                    | 6.68  | 11.10                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.66                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.30                                     | 0.17  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 4.08                                     | 1.07  | 3.75                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD06224        | SLD06249                     | 10/19/00        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.13                                     | 0.33  | 0.52                    | 0.65                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.18  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.06  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.16                                     | 1.80  | 0.91                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.31                                     | 1.53  | 2.51                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.32                                     | 0.26  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.24                                     | 0.24  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.24                                     | 0.24  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -18.72                                   | 13.91 | 20.18                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.24                                     | 0.24  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.48                                     | 0.31  | 0.45                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 4.14                                     | 2.82  | 11.99                   |                                  |
| SLD06225        | SLD06225                     | 11/14/00        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.13                                     | 0.10  | 0.15                    | 0.01                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.04                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 5.84                                     | 0.75  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.07                                     | 0.42  | 0.65                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.86                                     | 0.06  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.34                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.34                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -0.37                                    | 2.27  | 3.97                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.34                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.00                                     | 0.11  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.90                                     | 0.34  | 3.05                    |                                  |
|                 | SLD06250                     | 11/14/00        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.00                                     | 0.09  | 0.14                    | 0.01                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.34                                     | 0.05  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 6.03                                     | 0.69  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.11                                    | 0.38  | 0.58                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.15                                     | 0.07  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.41                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.41                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.02                                     | 2.46  | 4.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.41                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.11                                     | 0.09  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.51                                     | 0.39  | 2.45                    |                                  |
| SLD06226        | SLD06226                     | 10/19/00        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.33                                     | 0.20  | 0.30                    | 1.72                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.15                                     | 0.14  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.63                                     | 0.10  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 6.73                                     | 0.95  | 0.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.41                                     | 0.82  | 1.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.34                                     | 0.19  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.79                                     | 0.12  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.79                                     | 0.12  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.15                                     | 10.11 | 16.94                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.79                                     | 0.12  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 1.46                                     | 0.25  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 22.14                                    | 2.63  | 4.74                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD06226        | SLD06251                     | 10/19/00        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.16                                     | 0.17  | 0.36                    | 0.45                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.05                                     | 0.11  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.03                                     | 0.04  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 8.68                                     | 1.59  | 0.79                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.18                                     | 1.10  | 1.81                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.73                                     | 0.16  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.80                                     | 0.18  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.80                                     | 0.18  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -1.76                                    | 9.52  | 15.30                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.80                                     | 0.18  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.11                                     | 0.19  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.57                                     | 1.35  | 10.12                   |                                  |
| SLD06227        | SLD06227                     | 10/12/00        | 0                                 | 0.5                | 0.0                              | Actinium-227     | -0.01                                    | 0.11  | 0.16                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.06                                     | 0.06  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.08                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 3.90                                     | 0.63  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.06                                    | 0.49  | 0.77                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.89                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.38                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.79                                     | 0.44  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.29                                     | 0.58  | 0.36                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.32                                     | 0.27  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.09                                     | 0.13  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.68                                     | 0.81  | 3.28                    |                                  |
|                 | SLD06252                     | 10/12/00        | 1                                 | 1.5                |                                  | Actinium-227     | 0.11                                     | 0.06  | 0.17                    | 0.01                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.03                                    | 0.06  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.13                                     | 0.03  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 3.85                                     | 0.61  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.01                                     | 0.48  | 0.76                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.64                                     | 0.10  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.36                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.14                                     | 0.56  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.67                                     | 0.68  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.45                                     | 0.32  | 0.15                    |                                  |
| SLD06228        | SLD06228                     | 10/12/00        | 0                                 | 0.5                | 0.0                              | Uranium-235      | 0.11                                     | 0.10  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.09                                     | 0.83  | 3.75                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Actinium-227     | 0.07                                     | 0.09  | 0.14                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.06  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 3.29                                     | 0.51  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 1.42                                     | 0.71  | 0.70                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.96                                     | 0.07  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.33                                     | 0.06  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.80                                     | 0.41  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.89                                     | 0.65  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.48                                     | 0.30  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.18                                     | 0.09  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.33                                     | 0.84  | 3.33                    |                                  |



**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD06228        | SLD06253                     | 10/12/00        | 1.5                                | 2.0                |                                  | Actinium-227     | -0.01                                    | 0.18  | 0.26                    | 0.18                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.12                                     | 0.10  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.03                                    | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 9.22                                     | 1.17  | 0.47                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.38                                    | 0.81  | 1.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.64                                     | 0.15  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.08                                     | 0.14  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 2.07                                     | 0.82  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 3.95                                     | 1.24  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.28                                     | 0.62  | 0.34                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.14                                     | 0.20  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 4.46                                     | 1.32  | 6.14                    |                                  |
| SLD06229        | SLD06229                     | 10/12/00        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.06                                     | 0.09  | 0.14                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.03                                    | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.06                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 3.73                                     | 0.51  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.15                                     | 0.38  | 0.61                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.03                                     | 0.07  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.32                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.03                                     | 0.50  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.61                                     | 0.64  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.52                                     | 0.34  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.07                                     | 0.08  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.57                                     | 0.60  | 2.89                    |                                  |
|                 | SLD06254                     | 10/12/00        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.04                                     | 0.09  | 0.14                    | n n n                            |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.03                                    | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.05                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 7.24                                     | 0.87  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.13                                     | 0.42  | 0.68                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.76                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.44                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.65                                     | 0.41  | 0.46                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.86                                     | 0.44  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.51                                     | 0.34  | 0.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.12                                     | 0.13  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.12                                     | 0.80  | 3.13                    |                                  |
| SLD06230        | SLD06230                     | 10/23/00        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.19                                     | 0.17  | 0.25                    | 1.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.05                                     | 0.06  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.10                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 12.60                                    | 1.36  | 0.33                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.63                                     | 0.72  | 1.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.30                                     | 0.19  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.09                                     | 0.12  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.09                                     | 0.12  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.50                                     | 5.38  | 8.94                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.09                                     | 0.12  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 1.37                                     | 0.22  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 25.20                                    | 2.37  | 4.72                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD06230        | SLD06255                     | 10/23/00        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.23                                     | 0.09  | 0.19                    | 0.06                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 15.09                                    | 1.55  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.61                                     | 0.54  | 0.85                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.87                                     | 0.12  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.04                                     | 0.10  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.04                                     | 0.10  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 4.12                                     | 4.57  | 5.42                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.04                                     | 0.10  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.13                                     | 0.13  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.33                                     | 0.64  | 3.37                    |                                  |
| SLD06231        | SLD06231                     | 10/10/00        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.12                                     | 0.14  | 0.25                    | 1.02                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.05                                     | 0.06  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.31                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.55                                    | 1.33  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.35                                     | 0.77  | 1.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.08                                     | 0.18  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.88                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.39                                     | 0.64  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 4.57                                     | 1.36  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.94                                     | 0.51  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 1.46                                     | 0.21  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 26.36                                    | 2.43  | 4.16                    |                                  |
|                 | SLD06256                     | 10/10/00        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.37                                     | 0.17  | 0.25                    | 0.06                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.05                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 14.50                                    | 1.57  | 0.33                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.24                                     | 0.67  | 1.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.66                                     | 0.16  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.19                                     | 0.13  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.22                                     | 0.57  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.36                                     | 0.84  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.23                                     | 0.57  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.31                                     | 0.17  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.53                                     | 0.78  | 4.51                    |                                  |
| SLD70093        | SLD70093                     | 05/07/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.24                                     | 0.15  | 0.19                    | 0.51                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.01                                    | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 2.42                                     | 0.36  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.18                                    | 0.48  | 0.71                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 5.10                                     | 0.17  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.03                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.03                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.38                                     | 3.06  | 4.96                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.03                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.43                                     | 0.33  | 0.37                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.07                                     | 0.53  | 0.46                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD70093        | SLD70094                     | 05/07/02        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.04                                     | 0.10  | 0.14                    | 0.07                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.06                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 4.59                                     | 0.49  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.15                                     | 0.37  | 0.57                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.29                                     | 0.09  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.33                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.33                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.14                                     | 2.53  | 4.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.33                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.38                                     | 0.17  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 4.71                                     | 0.58  | 0.41                    |                                  |
|                 | SLD70095                     | 05/07/02        | 3.5                                | 4.0                |                                  | Actinium-227     | 0.07                                     | 0.05  | 0.13                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.34                                    | 0.83  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.25                                    | 0.31  | 0.45                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.04                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.63                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.63                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.09                                     | 2.10  | 3.47                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.63                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.01                                    | 0.13  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.78                                     | 0.37  | 0.34                    |                                  |
|                 | SLD70108                     | 05/07/02        | 4                                  | 4.5                |                                  | Actinium-227     | 0.05                                     | 0.10  | 0.13                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.01                                    | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.02                                    | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.66                                    | 0.89  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.09                                    | 0.35  | 0.53                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.96                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.36                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.36                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.14                                     | 2.22  | 3.67                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.36                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.03                                    | 0.15  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.65                                     | 0.36  | 0.36                    |                                  |
|                 | SLD70109                     | 05/07/02        | 6.7                                | 7.2                |                                  | Actinium-227     | 0.52                                     | 0.33  | 0.57                    | 0.41                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.03                                    | 0.11  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 13.55                                    | 1.74  | 0.76                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.47                                     | 1.29  | 2.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.49                                     | 0.23  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.17                                     | 0.18  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.17                                     | 0.18  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.46                                     | 9.55  | 14.60                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.17                                     | 0.18  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.42                                     | 0.57  | 1.00                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.25                                     | 1.54  | 1.45                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD70093        | PSC00127                     | 05/07/02        | 8.5                               | 9.0                |                                  | Actinium-227     | 0.00                                     | 0.00  | 0.58                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 12.03                                    | 0.53  | 0.48                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 1.76                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.82                                     | 0.02  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.76                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.76                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 9.58                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.76                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.00                                     | 0.00  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.47                                     | 0.18  | 0.82                    |                                  |
|                 | PSC00128                     | 05/07/02        | 8.5                               | 9.0                |                                  | Actinium-227     | 0.00                                     | 0.00  | 1.24                    | 0.26                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 13.60                                    | 0.96  | 1.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 3.98                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.75                                     | 0.04  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.74                                     | 0.07  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.74                                     | 0.07  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 5.11                                     | 2.57  | 11.60                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.74                                     | 0.07  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.00                                     | 0.00  | 0.61                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.00                                     | 0.00  | 2.18                    |                                  |
|                 | PSC00129                     | 05/07/02        | 8.5                               | 9.0                |                                  | Actinium-227     | 0.00                                     | 0.00  | 0.58                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 12.44                                    | 0.56  | 0.50                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 1.94                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.77                                     | 0.02  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.74                                     | 0.03  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.74                                     | 0.03  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 9.81                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.74                                     | 0.03  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.00                                     | 0.00  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.95                                     | 0.19  | 0.83                    |                                  |
|                 | SLD70110                     | 05/07/02        | 11.2                              | 11.7               |                                  | Actinium-227     | 0.43                                     | 0.25  | 0.42                    | 0.23                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.01                                    | 0.07  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.03  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 17.52                                    | 1.81  | 0.56                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -1.37                                    | 1.16  | 1.60                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.42                                     | 0.14  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.90                                     | 0.14  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.90                                     | 0.14  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -4.03                                    | 6.82  | 10.88                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.90                                     | 0.14  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.04                                     | 0.39  | 0.68                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.37                                     | 0.76  | 1.34                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD70096        | SLD70096                     | 05/08/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.51                                     | 0.19  | 0.34                    | 1.55                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.10  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.14                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 6.65                                     | 0.94  | 0.48                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -1.34                                    | 0.86  | 1.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.89                                     | 0.16  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.53                                     | 0.10  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.53                                     | 0.10  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -1.31                                    | 7.61  | 12.21                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.53                                     | 0.10  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 1.51                                     | 0.41  | 0.71                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 37.28                                    | 3.20  | 1.26                    |                                  |
|                 | SLD70097                     | 05/08/02        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.23                                     | 0.10  | 0.16                    | 0.04                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 14.68                                    | 1.05  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.05                                    | 0.41  | 0.62                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.14                                     | 0.09  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.90                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.90                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.59                                     | 2.87  | 4.72                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.90                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.06                                     | 0.18  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.86                                     | 0.48  | 0.45                    |                                  |
|                 | SLD70098                     | 05/08/02        | 2                                 | 2.5                |                                  | Actinium-227     | 0.37                                     | 0.21  | 0.35                    | 0.31                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.05                                    | 0.08  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.06                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.51                                     | 1.17  | 0.54                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.02                                    | 0.88  | 1.55                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.86                                     | 0.13  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.61                                     | 0.13  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.61                                     | 0.13  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -0.06                                    | 6.69  | 10.96                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.61                                     | 0.13  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.34                                     | 0.39  | 0.70                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 6.50                                     | 1.29  | 1.11                    |                                  |
|                 | PSC00130                     | 05/08/02        | 2.5                               | 3.0                |                                  | Actinium-227     | 0.00                                     | 0.00  | 0.56                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.18                                    | 0.48  | 0.60                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.82                                     | 0.26  | 1.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.73                                     | 0.02  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.66                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.66                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 9.73                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.66                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.00                                     | 0.00  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.79                                     | 0.18  | 0.82                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD70096        | PSC00131                     | 05/08/02        | 5                                 | 5.2                |                                  | Actinium-227     | 0.00                                     | 0.00  | 0.54                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.79                                     | 0.48  | 0.70                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 1.76                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.59                                     | 0.02  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.66                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.66                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 9.62                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.66                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.00                                     | 0.00  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.66                                     | 0.18  | 0.79                    |                                  |
|                 | SLD70111                     | 05/08/02        | 5.2                               | 5.7                |                                  | Actinium-227     | 0.40                                     | 0.11  | 0.18                    | 0.02                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 12.38                                    | 0.97  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.06                                     | 0.40  | 0.62                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.37                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.70                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.70                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.76                                     | 2.70  | 4.42                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.70                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.05                                    | 0.17  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.26                                     | 0.52  | 0.43                    |                                  |
|                 | PSC00132                     | 05/08/02        | 8.5                               | 9.0                |                                  | Actinium-227     | 0.00                                     | 0.00  | 0.56                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 11.06                                    | 0.52  | 0.58                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 1.63                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.64                                     | 0.02  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.61                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.61                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 9.85                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.61                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.00                                     | 0.00  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.94                                     | 0.19  | 0.79                    |                                  |
|                 | PSC00133                     | 05/08/02        | 10.5                              | 11.0               |                                  | Actinium-227     | 0.00                                     | 0.00  | 0.56                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.30                                    | 0.50  | 0.58                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 1.82                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.59                                     | 0.02  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.60                                     | 0.03  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.60                                     | 0.03  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 9.86                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.60                                     | 0.03  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.00                                     | 0.00  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.37                                     | 0.18  | 0.85                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD70096        | PSC00134                     | 05/08/02        | 15                                | 15.5               |                                  | Actinium-227     | 0.00                                     | 0.00  | 0.61                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.00  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.00  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.62                                    | 0.52  | 0.63                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.00                                     | 0.00  | 1.81                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.67                                     | 0.02  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.61                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.61                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.00                                     | 0.00  | 9.98                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.61                                     | 0.03  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.00                                     | 0.00  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.00                                     | 0.00  | 1.10                    |                                  |
| SLD70099        | SLD70099                     | 05/09/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.06                                     | 0.12  | 0.18                    | 0.30                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.34                                     | 0.04  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.59                                     | 0.81  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.01                                    | 0.51  | 0.77                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.73                                     | 0.12  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.60                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.60                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.31                                     | 3.74  | 5.72                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.60                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.31                                     | 0.21  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 7.49                                     | 0.90  | 0.56                    |                                  |
|                 | SLD70100                     | 05/09/02        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.20                                     | 0.12  | 0.18                    | 0.06                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 15.33                                    | 1.15  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.18                                    | 0.47  | 0.71                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.30                                     | 0.10  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.01                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.01                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.21                                     | 3.14  | 5.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.01                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.29                                     | 0.28  | 0.36                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.21                                     | 0.60  | 0.49                    |                                  |
|                 | SLD70101                     | 05/09/02        | 2.4                               | 2.9                |                                  | Actinium-227     | 0.70                                     | 0.30  | 0.51                    | 0.40                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.10  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.05                                    | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 12.41                                    | 1.72  | 0.78                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 1.45                                     | 1.52  | 2.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 4.29                                     | 0.24  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.40                                     | 0.18  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.40                                     | 0.18  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.51                                     | 8.85  | 14.60                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.40                                     | 0.18  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.20                                    | 0.55  | 0.92                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.17                                     | 1.62  | 1.45                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD70099        | SLD70112                     | 05/09/02        | 5.2                                | 5.7                |                                  | Actinium-227     | 0.30                                     | 0.09  | 0.15                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 15.32                                    | 1.08  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.11                                     | 0.37  | 0.58                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.74                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.69                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.69                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.23                                     | 2.51  | 4.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.69                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.01                                    | 0.16  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.05                                     | 0.45  | 0.40                    |                                  |
|                 | SLD70113                     | 05/09/02        | 8.1                                | 8.6                |                                  | Actinium-227     | 0.36                                     | 0.18  | 0.28                    | 0.13                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.06  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 18.79                                    | 1.58  | 0.37                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.33                                     | 0.73  | 1.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.40                                     | 0.11  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.88                                     | 0.11  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.88                                     | 0.11  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -0.48                                    | 4.83  | 7.82                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.88                                     | 0.11  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.19                                    | 0.31  | 0.50                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.13                                     | 0.78  | 0.79                    |                                  |
|                 | SLD70114                     | 05/09/02        | 11.2                               | 11.7               |                                  | Actinium-227     | 0.34                                     | 0.10  | 0.18                    | 0.04                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.03                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 20.08                                    | 1.43  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.25                                     | 0.41  | 0.72                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.53                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.94                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.94                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.16                                     | 3.12  | 5.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.94                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.01                                    | 0.19  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.86                                     | 0.54  | 0.49                    |                                  |
| SLD70102        | SLD70102                     | 05/13/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.17                                     | 0.23  | 0.35                    | 0.65                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.03                                     | 0.08  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.17                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 5.70                                     | 1.01  | 0.65                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.65                                    | 0.91  | 1.53                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.16                                     | 0.18  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.62                                     | 0.12  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.62                                     | 0.12  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.36                                     | 6.30  | 9.71                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.62                                     | 0.12  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.73                                     | 0.64  | 0.73                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 4.63                                     | 1.37  | 0.94                    |                                  |



**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD70102        | SLD70103                     | 05/13/02        | 0.5                                | 1.0                |                                  | Actinium-227     | 0.08                                     | 0.32  | 0.46                    | 1.03                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.09                                     | 0.22  | 0.34                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.39                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 10.65                                    | 1.35  | 0.87                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.23                                    | 1.40  | 2.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 12.83                                    | 0.47  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.75                                     | 0.17  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.75                                     | 0.17  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 11.22                                    | 15.43 | 25.76                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.75                                     | 0.17  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 1.03                                     | 0.82  | 1.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 16.29                                    | 3.05  | 2.78                    |                                  |
|                 | SLD70104                     | 05/13/02        | 2.5                                | 3.0                |                                  | Actinium-227     | 0.32                                     | 0.19  | 0.29                    | 0.39                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.13  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.03                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 8.74                                     | 0.94  | 0.38                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.72                                     | 0.79  | 1.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 4.31                                     | 0.18  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.32                                     | 0.12  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.32                                     | 0.12  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -0.52                                    | 8.85  | 13.68                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.32                                     | 0.12  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.35                                     | 0.35  | 0.60                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.41                                     | 1.36  | 1.44                    |                                  |
|                 | SLD70121                     | 05/13/02        | 4                                  | 4.5                |                                  | Actinium-227     | 0.16                                     | 0.11  | 0.24                    | 0.28                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.13                                     | 0.09  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 15.63                                    | 1.40  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.11                                    | 0.67  | 1.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.07                                     | 0.12  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.99                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.99                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.11                                     | 7.25  | 12.03                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.99                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.03                                    | 0.31  | 0.51                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.97                                     | 1.19  | 1.31                    |                                  |
|                 | SLD70122                     | 05/13/02        | 7.2                                | 7.7                |                                  | Actinium-227     | 0.02                                     | 0.14  | 0.20                    | 0.22                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.08  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 17.28                                    | 1.40  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.40                                    | 0.64  | 0.95                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.62                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.03                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.03                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.98                                     | 6.12  | 10.23                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.03                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.03                                     | 0.26  | 0.43                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.95                                     | 0.92  | 1.13                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD70102        | SLD70123                     | 05/13/02        | 9.3                               | 9.8                |                                  | Actinium-227     | 0.11                                     | 0.17  | 0.26                    | 0.78                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.09  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 17.55                                    | 1.56  | 0.39                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.30                                    | 0.70  | 1.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.57                                     | 0.11  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.98                                     | 0.11  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.98                                     | 0.11  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 13.54                                    | 10.12 | 12.27                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.98                                     | 0.11  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.17                                    | 0.31  | 0.51                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.28                                     | 0.81  | 1.49                    |                                  |
|                 | SLD70124                     | 05/13/02        | 11.2                              | 11.7               |                                  | Actinium-227     | 0.16                                     | 0.14  | 0.23                    | 0.26                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.08  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.03                                    | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 17.61                                    | 1.52  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.88                                     | 0.63  | 1.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.42                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.88                                     | 0.10  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.88                                     | 0.10  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -4.36                                    | 7.52  | 11.44                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.88                                     | 0.10  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.26                                     | 0.28  | 0.49                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.72                                     | 1.31  | 1.19                    |                                  |
| SLD70105        | SLD70105                     | 05/15/02        | 0.5                               | 1.0                | 0.5                              | Actinium-227     | 0.07                                     | 0.10  | 0.16                    | 0.13                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.06  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.18                                     | 0.39  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.53                                    | 0.41  | 0.67                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.61                                     | 0.09  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.24                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.24                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -0.22                                    | 5.02  | 7.87                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.24                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.06                                    | 0.19  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.34                                     | 0.85  | 0.84                    |                                  |
|                 | SLD70106                     | 05/15/02        | 2                                 | 2.5                |                                  | Actinium-227     | 0.12                                     | 0.25  | 0.37                    | 0.56                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.10                                     | 0.17  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 11.56                                    | 1.35  | 0.61                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.46                                     | 1.06  | 1.69                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 5.45                                     | 0.25  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.23                                     | 0.16  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.23                                     | 0.16  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -1.10                                    | 12.36 | 19.16                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.23                                     | 0.16  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.70                                     | 0.72  | 0.80                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.80                                     | 1.88  | 2.20                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD70105        | SLD70107                     | 05/15/02        | 4                                 | 4.5                |                                  | Actinium-227     | 0.24                                     | 0.27  | 0.42                    | 0.64                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.18                                     | 0.19  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.04                                    | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.39                                     | 1.37  | 0.77                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.43                                     | 1.19  | 1.90                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 5.03                                     | 0.25  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.23                                     | 0.18  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.23                                     | 0.18  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -1.34                                    | 13.49 | 21.00                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.23                                     | 0.18  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.08                                     | 0.52  | 0.87                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.74                                     | 2.11  | 2.41                    |                                  |
|                 | SLD70125                     | 05/15/02        | 8.5                               | 9.0                |                                  | Actinium-227     | 0.15                                     | 0.19  | 0.29                    | 0.32                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.11                                     | 0.11  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 8.34                                     | 1.06  | 0.47                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.45                                     | 0.79  | 1.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.65                                     | 0.14  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.95                                     | 0.11  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.95                                     | 0.11  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.09                                     | 8.41  | 13.19                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.95                                     | 0.11  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.21                                     | 0.34  | 0.59                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.87                                     | 1.48  | 1.46                    |                                  |
|                 | SLD70126                     | 05/15/02        | 11.2                              | 11.7               |                                  | Actinium-227     | -0.02                                    | 0.16  | 0.24                    | 0.28                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.10  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 16.25                                    | 1.48  | 0.36                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.31                                     | 0.78  | 1.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.50                                     | 0.11  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.98                                     | 0.11  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.98                                     | 0.11  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -0.60                                    | 7.77  | 12.13                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.98                                     | 0.11  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.15                                     | 0.30  | 0.52                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.76                                     | 1.14  | 1.34                    |                                  |
|                 | SLD70127                     | 05/15/02        | 12.5                              | 13.0               |                                  | Actinium-227     | 0.07                                     | 0.16  | 0.24                    | 0.31                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.10  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 15.99                                    | 1.46  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.11                                     | 0.68  | 1.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.82                                     | 0.11  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.09                                     | 0.11  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.09                                     | 0.11  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 7.12                                     | 7.02  | 12.15                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.09                                     | 0.11  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.23                                     | 0.31  | 0.53                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.74                                     | 1.39  | 1.26                    |                                  |

**Table C-1**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD70115        | SLD70115                     | 05/20/02        | 0                                  | 0.7                | 0.0                              | Actinium-227     | 0.56                                     | 0.36  | 0.42                    | 0.82                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.04                                     | 0.10  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.09                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 4.63                                     | 0.80  | 0.61                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 1.19                                     | 1.08  | 1.80                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 5.10                                     | 0.23  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.53                                     | 0.13  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.70                                     | 0.45  | 0.41                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.65                                     | 0.95  | 0.41                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.57                                     | 0.69  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.98                                     | 0.57  | 0.81                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 14.33                                    | 1.96  | 1.32                    |                                  |
|                 | SLD70116                     | 05/20/02        | 1.1                                | 1.6                |                                  | Actinium-227     | 0.28                                     | 0.12  | 0.21                    | 0.19                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.08  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 4.41                                     | 0.64  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.27                                    | 0.53  | 0.80                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.45                                     | 0.09  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.41                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.41                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -4.56                                    | 5.94  | 8.94                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.41                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.10                                     | 0.25  | 0.41                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.38                                     | 1.32  | 1.04                    |                                  |
|                 | SLD70117                     | 05/20/02        | 2                                  | 2.5                |                                  | Actinium-227     | 0.14                                     | 0.14  | 0.22                    | 0.32                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.02                                    | 0.09  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 6.59                                     | 0.76  | 0.34                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.04                                    | 0.63  | 0.97                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.63                                     | 0.13  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.53                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.53                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.70                                     | 7.09  | 11.88                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.53                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.37                                     | 0.36  | 0.48                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.92                                     | 1.29  | 1.28                    |                                  |
|                 | SLD70128                     | 05/20/02        | 4                                  | 4.5                |                                  | Actinium-227     | 0.14                                     | 0.18  | 0.28                    | 0.40                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.09                                     | 0.12  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 15.95                                    | 1.52  | 0.40                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.51                                     | 0.71  | 1.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.56                                     | 0.15  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.94                                     | 0.12  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.94                                     | 0.12  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 4.95                                     | 9.11  | 14.57                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.94                                     | 0.12  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.23                                     | 0.36  | 0.59                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.47                                     | 1.64  | 1.59                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD70115        | SLD70129                     | 05/20/02        | 6.8                               | 7.3                |                                  | Actinium-227     | 0.08                                     | 0.14  | 0.22                    | 0.26                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.02                                    | 0.09  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 16.64                                    | 1.42  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.21                                     | 0.66  | 1.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.55                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.04                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.04                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -2.82                                    | 6.96  | 11.36                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.04                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.21                                     | 0.27  | 0.47                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.33                                     | 1.13  | 1.24                    |                                  |
| SLD70118        | SLD70118                     | 05/21/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.05                                     | 0.11  | 0.17                    | 0.32                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.06  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 3.89                                     | 0.55  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.15                                     | 0.43  | 0.79                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.97                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.27                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.27                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -1.11                                    | 4.27  | 7.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.27                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.00                                     | 0.21  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.03                                     | 0.62  | 0.82                    |                                  |
|                 | SLD70119                     | 05/21/02        | 1.3                               | 1.8                |                                  | Actinium-227     | 0.34                                     | 0.10  | 0.28                    | 0.30                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.02                                    | 0.11  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 8.07                                     | 0.92  | 0.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.66                                     | 0.72  | 1.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.35                                     | 0.17  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.57                                     | 0.09  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.57                                     | 0.09  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -4.41                                    | 8.50  | 12.96                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.57                                     | 0.09  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.11                                     | 0.33  | 0.56                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.37                                     | 1.45  | 1.43                    |                                  |
|                 | SLD70120                     | 05/21/02        | 2                                 | 2.5                |                                  | Actinium-227     | 0.23                                     | 0.13  | 0.25                    | 0.29                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.09  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 6.71                                     | 0.88  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.45                                     | 0.65  | 1.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.50                                     | 0.16  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.66                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.66                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.71                                     | 7.50  | 11.68                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.66                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.20                                     | 0.30  | 0.51                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.18                                     | 1.22  | 1.21                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD70118        | SLD70130                     | 05/21/02        | 4                                 | 4.5                |                                  | Actinium-227     | 0.12                                     | 0.10  | 0.24                    | 0.25                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.10  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 11.09                                    | 1.07  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.32                                     | 0.71  | 1.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.23                                     | 0.13  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.71                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.71                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -0.80                                    | 7.23  | 11.22                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.71                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.09                                    | 0.30  | 0.49                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.68                                     | 1.29  | 1.23                    |                                  |
|                 | SLD85202                     | 05/21/02        | 6.3                               | 6.8                |                                  | Actinium-227     | -0.24                                    | 0.27  | 0.40                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.06  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.02                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.07                                    | 1.13  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.25                                    | 0.87  | 1.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.09                                     | 0.12  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.36                                     | 0.10  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.66                                     | 0.37  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.31                                     | 0.53  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.23                                     | 0.20  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.06                                    | 0.35  | 0.56                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.06                                     | 0.64  | 0.80                    |                                  |
|                 | SLD85203                     | 05/21/02        | 10.6                              | 11.1               |                                  | Actinium-227     | -0.17                                    | 0.16  | 0.24                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.02                                    | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.50                                    | 0.79  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.02                                     | 0.43  | 0.61                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.18                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.65                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.85                                     | 0.44  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.44                                     | 0.59  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.44                                     | 0.31  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.11                                     | 0.19  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.96                                     | 0.44  | 0.49                    |                                  |
|                 | SLD70131                     | 05/21/02        | 15.1                              | 15.5               |                                  | Actinium-227     | 0.21                                     | 0.23  | 0.47                    | 0.48                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.05                                    | 0.10  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.02                                    | 0.04  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 16.32                                    | 1.80  | 0.68                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.33                                    | 1.24  | 2.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.14                                     | 0.19  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.08                                     | 0.18  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.67                                     | 0.38  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 9.00                                     | 1.94  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.68                                     | 0.37  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.14                                    | 0.49  | 0.82                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.59                                     | 1.35  | 1.46                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD70118        | SLD85204                     | 05/21/02        | 17.5                               | 18.0               |                                  | Actinium-227     | 0.09                                     | 0.16  | 0.24                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.02                                    | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 17.69                                    | 1.10  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.15                                     | 0.45  | 0.64                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.50                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.93                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.54                                     | 0.58  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.50                                     | 0.57  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.04                                     | 0.46  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.09                                    | 0.19  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.09                                     | 0.38  | 0.54                    |                                  |
| SLD70466        | SLD70466                     | 09/05/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.12                                     | 0.13  | 0.20                    | 0.59                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.07                                     | 0.08  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.03                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 8.57                                     | 0.89  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.43                                    | 0.56  | 0.81                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.68                                     | 0.10  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.57                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.57                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.74                                     | 6.20  | 9.82                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.57                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.02                                     | 0.25  | 0.41                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.44                                     | 0.93  | 1.07                    |                                  |
|                 | SLD70467                     | 09/05/02        | 0.7                                | 1.2                |                                  | Actinium-227     | 0.09                                     | 0.13  | 0.20                    | 0.20                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.04                                     | 0.08  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 5.14                                     | 0.70  | 0.37                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.11                                     | 0.54  | 0.87                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.92                                     | 0.11  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.43                                     | 0.07  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.43                                     | 0.07  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -2.11                                    | 6.28  | 9.67                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.43                                     | 0.07  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.11                                     | 0.28  | 0.46                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.69                                     | 1.09  | 1.11                    |                                  |
|                 | SLD70468                     | 09/05/02        | 3.1                                | 3.6                |                                  | Actinium-227     | 0.09                                     | 0.17  | 0.26                    | 0.30                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.06                                     | 0.10  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 8.14                                     | 0.97  | 0.38                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.69                                     | 0.74  | 1.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.25                                     | 0.16  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.99                                     | 0.10  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.99                                     | 0.10  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.78                                     | 7.59  | 12.58                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.99                                     | 0.10  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.10                                     | 0.32  | 0.54                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.70                                     | 1.14  | 1.40                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD70466        | SLD70469                     | 09/05/02        | 4.5                               | 5.0                |                                  | Actinium-227     | -0.15                                    | 0.25  | 0.35                    | 0.44                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.14  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.02                                     | 0.03  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 11.70                                    | 1.24  | 0.58                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.46                                     | 1.07  | 1.67                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 7.41                                     | 0.29  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.12                                     | 0.12  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 2.71                                     | 0.94  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 5.27                                     | 1.43  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.68                                     | 0.69  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.17                                    | 0.47  | 0.77                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 6.17                                     | 1.83  | 1.93                    |                                  |
| SLD70486        | SLD70486                     | 09/12/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.10                                     | 0.13  | 0.20                    | 0.61                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.01                                    | 0.08  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.05                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 14.48                                    | 1.22  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.22                                     | 0.57  | 0.90                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.65                                     | 0.09  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.92                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.92                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -2.94                                    | 6.10  | 9.90                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.92                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.06                                     | 0.26  | 0.44                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.76                                     | 0.92  | 1.12                    |                                  |
|                 | SLD70487                     | 09/12/02        | 0.5                               | 1.0                |                                  | Actinium-227     | 0.62                                     | 0.32  | 0.45                    | 1.12                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.05                                     | 0.18  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.35                                    | 1.14  | 0.67                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.65                                     | 1.35  | 2.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 18.69                                    | 0.60  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.05                                     | 0.14  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 2.12                                     | 0.77  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 4.05                                     | 1.13  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.46                                     | 0.60  | 0.14                    |                                  |
|                 | SLD76915                     | 05/28/03        | 1.2                               | 1.5                |                                  | Uranium-235      | -0.17                                    | 0.60  | 0.97                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.06                                     | 1.91  | 2.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Actinium-227     | 1.93                                     | 0.20  | 0.32                    | 0.10                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.19  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 7.38                                     | 0.70  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.45                                     | 0.65  | 0.96                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.39                                     | 0.13  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.82                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.81                                     | 0.74  | 0.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.33                                     | 1.06  | 0.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.15                                     | 0.57  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.73                                     | 0.43  | 0.48                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.83                                     | 1.66  | 2.06                    |                                  |



**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD70486        | SLD76916                     | 05/28/03        | 2.7                                | 3.0                |                                  | Actinium-227     | 3.18                                     | 0.30  | 0.42                    | 0.27                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.25                                     | 0.27  | 0.40                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.03                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 12.98                                    | 1.02  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 1.11                                     | 0.82  | 1.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 5.22                                     | 0.18  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.30                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.81                                     | 0.68  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 5.00                                     | 1.29  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.00                                     | 0.48  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.48                                     | 0.36  | 0.61                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.34                                     | 2.25  | 2.93                    |                                  |
|                 | SLD76917                     | 05/28/03        | 5                                  | 5.3                |                                  | Actinium-227     | 0.06                                     | 0.04  | 0.13                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.02                                    | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 13.21                                    | 0.94  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.13                                    | 0.37  | 0.55                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.44                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.67                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.90                                     | 0.44  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.16                                     | 0.50  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.23                                     | 0.21  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.04                                     | 0.15  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.93                                     | 0.36  | 0.37                    |                                  |
| SLD71088        | SLD71088                     | 07/09/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.27                                     | 0.10  | 0.15                    | 0.07                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.03                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 7.78                                     | 0.70  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.27                                     | 0.42  | 0.66                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.72                                     | 0.11  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.64                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.64                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.22                                     | 2.71  | 4.44                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.64                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.13                                     | 0.18  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.93                                     | 0.50  | 0.42                    |                                  |
|                 | SLD71089                     | 07/09/02        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.17                                     | 0.18  | 0.28                    | 0.64                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.03                                     | 0.06  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.58                                    | 1.06  | 0.40                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.36                                     | 0.78  | 1.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 6.93                                     | 0.25  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.09                                     | 0.11  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.09                                     | 0.11  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 10.29                                    | 7.14  | 8.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.09                                     | 0.11  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.22                                     | 0.34  | 0.58                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 5.07                                     | 0.86  | 0.82                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD71088        | SLD71090                     | 07/09/02        | 2.5                                | 3.0                |                                  | Actinium-227     | 0.30                                     | 0.16  | 0.26                    | 0.37                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.06  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 12.27                                    | 1.07  | 0.43                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.19                                    | 0.79  | 1.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 7.20                                     | 0.25  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.13                                     | 0.11  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.13                                     | 0.11  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 5.07                                     | 5.59  | 8.45                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.13                                     | 0.11  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.46                                     | 0.33  | 0.58                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 4.51                                     | 0.96  | 0.82                    |                                  |
|                 | SLD71087                     | 07/09/02        | 4                                  | 4.5                |                                  | Actinium-227     | 0.25                                     | 0.16  | 0.23                    | 0.14                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.03                                    | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 12.18                                    | 1.11  | 0.37                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.61                                     | 0.67  | 1.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 4.43                                     | 0.17  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.91                                     | 0.09  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.91                                     | 0.09  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 5.10                                     | 4.32  | 7.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.91                                     | 0.09  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.07                                    | 0.29  | 0.49                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.93                                     | 0.72  | 0.69                    |                                  |
|                 | SLD71091                     | 07/09/02        | 6.6                                | 7.2                |                                  | Actinium-227     | 0.20                                     | 0.12  | 0.19                    | 0.09                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 13.21                                    | 1.03  | 0.33                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.85                                     | 0.50  | 0.83                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.21                                     | 0.13  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.01                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.01                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.79                                     | 4.00  | 6.01                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.01                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.21                                     | 0.23  | 0.40                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.12                                     | 0.65  | 0.58                    |                                  |
|                 | SLD71092                     | 07/09/02        | 9.3                                | 9.8                |                                  | Actinium-227     | 0.11                                     | 0.10  | 0.15                    | 0.33                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 17.18                                    | 1.25  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.26                                     | 0.43  | 0.68                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.49                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.94                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.94                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 6.67                                     | 3.87  | 4.51                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.94                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.02                                     | 0.18  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.23                                     | 0.57  | 0.43                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of Ratios <sup>5</sup> Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD71440        | SLD71440                     | 07/23/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.21                                     | 0.10  | 0.15                    | 0.77                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.29                                     | 0.03  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 12.43                                    | 0.89  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.13                                    | 0.45  | 0.67                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 5.29                                     | 0.17  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.25                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.62                                     | 0.64  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 5.03                                     | 1.31  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.37                                     | 0.57  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.35                                     | 0.17  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 6.17                                     | 0.67  | 0.48                    |                                  |
| SLD71441        | SLD71441                     | 07/23/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.13                                     | 0.12  | 0.29                    | 0.71                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.12                                     | 0.12  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.33                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.60                                     | 1.02  | 0.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.90                                     | 0.80  | 1.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 5.27                                     | 0.21  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.23                                     | 0.13  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.94                                     | 0.74  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 4.92                                     | 1.36  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.26                                     | 0.57  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.57                                     | 0.46  | 0.66                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 4.23                                     | 1.56  | 1.65                    |                                  |
| SLD71442        | SLD71442                     | 07/24/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.17                                     | 0.06  | 0.11                    | 0.46                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.22                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.72                                     | 0.71  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.20                                     | 0.37  | 0.57                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 4.45                                     | 0.14  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.85                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.25                                     | 0.53  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.90                                     | 1.07  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.07                                     | 0.48  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.27                                     | 0.16  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 4.43                                     | 0.59  | 0.39                    |                                  |
| SLD72139        | SLD72139                     | 10/21/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.16                                     | 0.14  | 0.23                    | 0.79                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.09  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.12                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 5.63                                     | 0.68  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.18                                    | 0.61  | 1.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.67                                     | 0.13  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.54                                     | 0.08  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.54                                     | 0.08  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -0.37                                    | 7.62  | 11.76                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.54                                     | 0.08  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.19                                     | 0.29  | 0.49                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.76                                     | 1.28  | 1.24                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72139        | SLD72166                     | 10/21/02        | 1.1                               | 1.6                |                                  | Actinium-227     | 0.17                                     | 0.13  | 0.22                    | 0.22                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.08  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.02                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 16.39                                    | 1.29  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.05                                     | 0.62  | 0.95                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.66                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.01                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.01                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -6.58                                    | 6.53  | 10.32                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.01                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.09                                    | 0.26  | 0.42                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.24                                     | 0.91  | 1.14                    |                                  |
|                 | SLD72192                     | 10/21/02        | 3                                 | 3.5                |                                  | Actinium-227     | 0.30                                     | 0.14  | 0.23                    | 0.27                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.01                                    | 0.10  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 15.33                                    | 1.23  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.07                                     | 0.60  | 0.93                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.21                                     | 0.12  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.89                                     | 0.10  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.89                                     | 0.10  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.32                                     | 7.12  | 11.73                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.89                                     | 0.10  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.25                                     | 0.29  | 0.48                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.88                                     | 1.06  | 1.28                    |                                  |
|                 | SLD72201                     | 10/21/02        | 5                                 | 5.5                |                                  | Actinium-227     | 0.23                                     | 0.13  | 0.21                    | 0.21                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.05                                    | 0.08  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 14.86                                    | 1.20  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.24                                     | 0.59  | 0.93                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.46                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.92                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.92                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.49                                     | 5.92  | 10.23                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.92                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.10                                    | 0.25  | 0.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.93                                     | 0.70  | 1.24                    |                                  |
| SLD72140        | SLD72140                     | 10/17/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.06                                     | 0.10  | 0.15                    | 0.12                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.38                                     | 0.04  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 6.79                                     | 0.61  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.17                                     | 0.45  | 0.69                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.25                                     | 0.12  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.62                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.62                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.02                                     | 3.12  | 4.62                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.62                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.11                                     | 0.19  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.76                                     | 0.63  | 0.44                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72140        | SLD72167                     | 10/17/02        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.21                                     | 0.15  | 0.23                    | 0.19                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.04                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 15.60                                    | 1.23  | 0.33                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.48                                     | 0.63  | 1.00                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 4.16                                     | 0.16  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.55                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.55                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 5.89                                     | 4.47  | 7.41                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.55                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.11                                     | 0.28  | 0.47                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.86                                     | 0.69  | 0.70                    |                                  |
| SLD72141        | SLD72141                     | 10/15/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.08                                     | 0.09  | 0.15                    | 0.31                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.04                                     | 0.06  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.07                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 3.19                                     | 0.44  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.16                                     | 0.40  | 0.64                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.79                                     | 0.09  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.25                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.25                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.79                                     | 4.48  | 6.99                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.25                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.11                                    | 0.19  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.37                                     | 0.65  | 0.78                    |                                  |
|                 | SLD72168                     | 10/15/02        | 1.3                                | 1.8                |                                  | Actinium-227     | 0.14                                     | 0.15  | 0.24                    | 0.33                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.07                                     | 0.10  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 9.82                                     | 1.02  | 0.41                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.09                                     | 0.67  | 1.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.38                                     | 0.13  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.74                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.74                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.89                                     | 7.55  | 12.48                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.74                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.14                                     | 0.31  | 0.52                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.37                                     | 1.23  | 1.36                    |                                  |
|                 | SLD72193                     | 10/15/02        | 3.2                                | 3.7                |                                  | Actinium-227     | 0.26                                     | 0.14  | 0.23                    | 0.22                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.01                                    | 0.08  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 14.80                                    | 1.32  | 0.34                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.09                                     | 0.63  | 0.97                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.33                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.91                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.91                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 4.42                                     | 5.95  | 10.48                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.91                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.03                                    | 0.26  | 0.43                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.50                                     | 0.68  | 1.20                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72141        | SLD72202                     | 10/15/02        | 5.3                               | 5.8                |                                  | Actinium-227     | 0.19                                     | 0.13  | 0.22                    | 0.23                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.06                                     | 0.09  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 15.84                                    | 1.31  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.69                                     | 0.66  | 0.99                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.67                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.01                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.01                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.72                                     | 6.22  | 10.80                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.01                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.06                                    | 0.26  | 0.43                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.22                                     | 0.87  | 1.19                    |                                  |
| SLD72142        | SLD72142                     | 10/21/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.05                                     | 0.13  | 0.20                    | 0.57                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.07  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.04                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 3.41                                     | 0.58  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.28                                    | 0.52  | 0.89                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.74                                     | 0.10  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.25                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.25                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.56                                     | 6.04  | 9.49                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.25                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.21                                    | 0.24  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.04                                     | 1.08  | 1.01                    |                                  |
|                 | SLD72169                     | 10/21/02        | 1.4                               | 1.9                |                                  | Actinium-227     | 0.26                                     | 0.14  | 0.23                    | 0.24                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.09                                     | 0.08  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 16.02                                    | 1.31  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.67                                     | 0.54  | 0.92                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.74                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.02                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.02                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.82                                     | 6.80  | 10.60                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.02                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.02                                     | 0.28  | 0.44                    |                                  |
| SLD72143        | SLD72143                     | 10/17/02        | 0                                 | 0.5                | 0.0                              | Uranium-238      | 1.99                                     | 1.10  | 1.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Actinium-227     | 0.03                                     | 0.05  | 0.08                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.02                                     | 0.01  | 0.01                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.72                                     | 0.28  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.11                                    | 0.22  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.18                                     | 0.05  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.10                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.10                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.01                                     | 1.59  | 2.43                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.10                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.12                                     | 0.10  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.92                                     | 0.30  | 0.22                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72143        | SLD72170                     | 10/17/02        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.28                                     | 0.13  | 0.21                    | 0.36                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.15                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.04                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.51                                    | 0.87  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.05                                    | 0.54  | 0.82                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 4.15                                     | 0.15  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.98                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.98                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.87                                     | 4.23  | 6.84                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.98                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.77                                     | 0.26  | 0.41                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 14.44                                    | 1.28  | 0.64                    |                                  |
| SLD72144        | SLD72144                     | 10/15/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.06                                     | 0.13  | 0.21                    | 0.64                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.07                                    | 0.09  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.13                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 7.31                                     | 0.79  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.41                                     | 0.59  | 0.98                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.76                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.50                                     | 0.08  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.50                                     | 0.08  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.51                                     | 6.49  | 10.22                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.50                                     | 0.08  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.18                                     | 0.26  | 0.45                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.92                                     | 1.17  | 1.09                    |                                  |
|                 | SLD72171                     | 10/15/02        | 1.4                               | 1.9                |                                  | Actinium-227     | 0.18                                     | 0.27  | 0.43                    | 0.71                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.16                                     | 0.20  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 14.20                                    | 1.69  | 0.69                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 1.04                                     | 1.80  | 2.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 4.82                                     | 0.25  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.28                                     | 0.17  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.28                                     | 0.17  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 8.27                                     | 13.84 | 22.14                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.28                                     | 0.17  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.47                                     | 0.52  | 0.90                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 5.25                                     | 2.27  | 2.54                    |                                  |
|                 | SLD72194                     | 10/15/02        | 2.4                               | 2.9                |                                  | Actinium-227     | 0.03                                     | 0.14  | 0.22                    | 0.24                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.09  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.02                                    | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 11.39                                    | 1.10  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.21                                    | 0.66  | 0.99                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.72                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.79                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.79                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -6.22                                    | 7.24  | 10.75                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.79                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.11                                     | 0.28  | 0.47                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.93                                     | 1.16  | 1.18                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72144        | SLD72203                     | 10/15/02        | 5.3                                | 5.8                |                                  | Actinium-227     | 0.35                                     | 0.16  | 0.28                    | 0.32                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.05                                     | 0.10  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 17.34                                    | 1.49  | 0.43                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.31                                     | 0.76  | 1.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.95                                     | 0.12  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.18                                     | 0.12  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.18                                     | 0.12  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -3.46                                    | 7.65  | 12.99                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.18                                     | 0.12  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.03                                    | 0.32  | 0.52                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.80                                     | 0.90  | 1.59                    |                                  |
| SLD72145        | SLD72145                     | 10/14/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.04                                     | 0.11  | 0.16                    | 0.16                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.11                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 6.90                                     | 0.66  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.07                                     | 0.47  | 0.72                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.90                                     | 0.12  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.63                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.63                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.54                                     | 3.48  | 5.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.63                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.16                                     | 0.20  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.42                                     | 0.61  | 0.49                    |                                  |
|                 | SLD72172                     | 10/14/02        | 0.8                                | 1.3                |                                  | Actinium-227     | 0.17                                     | 0.11  | 0.15                    | 0.04                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 9.75                                     | 0.81  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.22                                     | 0.45  | 0.71                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.39                                     | 0.10  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.73                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.73                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.34                                     | 2.95  | 4.87                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.73                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.12                                     | 0.19  | 0.33                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.78                                     | 0.50  | 0.46                    |                                  |
| SLD72146        | SLD72146                     | 10/15/02        | 0                                  | 0.8                | 0.0                              | Actinium-227     | 0.17                                     | 0.28  | 0.43                    | 0.52                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.09                                     | 0.37  | 0.60                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.17                                     | 0.09  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 9.20                                     | 1.35  | 0.61                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.26                                    | 1.25  | 1.92                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 4.43                                     | 0.24  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.96                                     | 0.16  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.38                                     | 0.61  | 0.33                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 3.95                                     | 1.15  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.61                                     | 0.66  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.09                                    | 0.54  | 0.89                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 4.06                                     | 4.33  | 4.36                    |                                  |



**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72146        | SLD72173                     | 10/15/02        | 0.8                               | 1.6                |                                  | Actinium-227     | 0.12                                     | 0.27  | 0.41                    | 0.07                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.32  | 0.56                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.04                                    | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 11.34                                    | 1.52  | 0.60                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.21                                     | 1.25  | 1.97                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.02                                     | 0.20  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.90                                     | 0.17  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 2.51                                     | 0.91  | 0.41                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.26                                     | 0.85  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.50                                     | 0.67  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.59                                    | 0.52  | 0.80                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.67                                     | 2.63  | 4.60                    |                                  |
| SLD72147        | SLD72147                     | 10/22/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.05                                     | 0.13  | 0.21                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.09  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.16                                     | 0.54  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.07                                     | 0.58  | 1.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.24                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.18                                     | 0.06  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.33                                     | 0.29  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.75                                     | 0.67  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.19                                     | 0.21  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.10                                     | 0.27  | 0.47                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.20                                     | 1.10  | 1.22                    |                                  |
|                 | SLD72174                     | 10/22/02        | 1                                 | 1.5                |                                  | Actinium-227     | 0.03                                     | 0.10  | 0.15                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.06  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 8.21                                     | 0.76  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.04                                     | 0.41  | 0.64                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.19                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.45                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.81                                     | 0.41  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.21                                     | 0.51  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.45                                     | 0.30  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.22                                     | 0.27  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.15                                     | 0.65  | 0.80                    |                                  |
| SLD72148        | SLD72148                     | 10/21/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.09                                     | 0.11  | 0.19                    | 0.58                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.05                                     | 0.07  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.07                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 4.73                                     | 0.59  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.22                                    | 0.52  | 0.78                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.32                                     | 0.11  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.34                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.34                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.41                                     | 6.02  | 9.53                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.34                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.09                                     | 0.24  | 0.41                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.11                                     | 1.01  | 1.02                    |                                  |

**Table C-1**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72148        | SLD72175                     | 10/21/02        | 1.3                                | 1.8                |                                  | Actinium-227     | 0.12                                     | 0.08  | 0.19                    | 0.17                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.06                                     | 0.07  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 10.93                                    | 0.98  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.36                                     | 0.51  | 0.83                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.28                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.69                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.69                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -0.39                                    | 5.78  | 8.93                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.69                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.12                                     | 0.22  | 0.37                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.03                                     | 0.94  | 0.95                    |                                  |
| SLD72149        | SLD72149                     | 10/16/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.11                                     | 0.06  | 0.17                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.07                                     | 0.06  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 2.44                                     | 0.51  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.06                                    | 0.42  | 0.73                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.52                                     | 0.09  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.19                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.25                                     | 0.27  | 0.38                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.73                                     | 0.70  | 0.34                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.11                                     | 0.16  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.10                                     | 0.20  | 0.34                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.99                                     | 0.93  | 0.87                    |                                  |
|                 | SLD72176                     | 10/16/02        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.26                                     | 0.13  | 0.22                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.07                                     | 0.08  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.03                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 12.98                                    | 1.13  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.62                                    | 0.62  | 0.88                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.54                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.81                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.46                                     | 0.65  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.98                                     | 0.76  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.93                                     | 0.49  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.13                                     | 0.27  | 0.45                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.44                                     | 0.98  | 1.13                    |                                  |
| SLD72150        | SLD72150                     | 10/02/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.07                                     | 0.10  | 0.16                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.10                                     | 0.11  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.09                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 3.79                                     | 0.45  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.30                                     | 0.42  | 0.68                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.56                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.30                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.46                                     | 0.29  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.48                                     | 0.56  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.67                                     | 0.36  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.18                                     | 0.20  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.75                                     | 0.94  | 1.71                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72150        | SLD72177                     | 10/02/02        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.20                                     | 0.11  | 0.18                    | 0.01                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.13  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 6.95                                     | 0.63  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.18                                     | 0.47  | 0.73                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.91                                     | 0.12  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.57                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.04                                     | 0.47  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.76                                     | 0.64  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.50                                     | 0.31  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.12                                     | 0.24  | 0.39                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.80                                     | 1.08  | 1.96                    |                                  |
|                 | SLD72195                     | 10/02/02        | 3.1                               | 3.6                |                                  | Actinium-227     | 0.18                                     | 0.11  | 0.18                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.07                                    | 0.13  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 15.90                                    | 1.15  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.19                                     | 0.48  | 0.74                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.64                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.91                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.14                                     | 0.52  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.05                                     | 0.49  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.12                                     | 0.51  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.31                                     | 0.29  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.30                                     | 1.05  | 1.89                    |                                  |
|                 | SLD72204                     | 10/03/02        | 5.5                               | 6.0                |                                  | Actinium-227     | 0.09                                     | 0.07  | 0.11                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 11.63                                    | 0.81  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.30                                     | 0.31  | 0.50                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.16                                     | 0.06  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.47                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.47                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.12                                     | 2.02  | 3.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.47                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.01                                     | 0.14  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.75                                     | 0.36  | 0.32                    |                                  |
|                 | SLD72799                     | 10/02/02        | 9                                 | 9.5                |                                  | Actinium-227     | 0.07                                     | 0.11  | 0.17                    | 0.05                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 15.71                                    | 1.15  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.19                                     | 0.52  | 0.81                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.85                                     | 0.09  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.84                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.84                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -1.67                                    | 3.31  | 5.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.84                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.01                                    | 0.20  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.32                                     | 0.53  | 0.51                    |                                  |

Table C-1  
PSC Metals Vicinity Property (DT-8)  
Pre-Design Investigation Radiological Data Results

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72150        | SLD72800                     | 10/02/02        | 11.1                               | 11.6               |                                  | Actinium-227     | 0.08                                     | 0.10  | 0.15                    | 0.02                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.03                                    | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 14.43                                    | 1.07  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.25                                     | 0.43  | 0.69                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.56                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.72                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.72                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -1.81                                    | 2.83  | 4.48                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.72                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.05                                     | 0.18  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.60                                     | 0.46  | 0.46                    |                                  |
|                 | SLD72801                     | 10/02/02        | 18.3                               | 18.8               |                                  | Actinium-227     | 0.00                                     | 0.29  | 0.42                    | 0.37                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.01                                    | 0.09  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 22.28                                    | 2.22  | 0.70                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.75                                    | 1.45  | 2.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.71                                     | 0.17  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.13                                     | 0.19  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.13                                     | 0.19  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 6.68                                     | 8.37  | 14.35                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.13                                     | 0.19  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.20                                     | 0.55  | 0.95                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.12                                     | 1.54  | 1.30                    |                                  |
| SLD72151        | SLD72151                     | 10/14/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.05                                     | 0.06  | 0.10                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 3.23                                     | 0.35  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.14                                     | 0.26  | 0.47                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.43                                     | 0.07  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.17                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.17                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -0.32                                    | 1.88  | 3.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.17                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.06                                     | 0.13  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.16                                     | 0.34  | 0.30                    |                                  |
|                 | SLD72178                     | 10/14/02        | 1.3                                | 1.8                |                                  | Actinium-227     | 0.13                                     | 0.14  | 0.21                    | 0.12                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.02                                    | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 15.37                                    | 1.17  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.09                                     | 0.60  | 0.92                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.96                                     | 0.16  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.04                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.04                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 4.69                                     | 4.83  | 6.58                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.04                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.00                                     | 0.29  | 0.44                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.57                                     | 0.74  | 0.64                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of Ratios Value <sup>5</sup> |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72152        | SLD72152                     | 10/15/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.29                                     | 0.19  | 0.36                    | 1.45                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.11                                    | 0.16  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.27                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 8.84                                     | 1.18  | 0.58                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.63                                     | 1.05  | 1.69                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.87                                     | 0.21  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.92                                     | 0.14  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.92                                     | 0.14  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 4.28                                     | 11.31 | 17.87                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.92                                     | 0.14  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.67                                     | 0.61  | 0.77                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.98                                     | 2.03  | 1.99                    |                                  |
|                 | SLD72179                     | 10/15/02        | 1.1                                | 1.6                |                                  | Actinium-227     | 0.22                                     | 0.17  | 0.29                    | 0.33                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.01                                    | 0.11  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 13.69                                    | 1.36  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.15                                    | 0.76  | 1.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.00                                     | 0.13  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.03                                     | 0.12  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.03                                     | 0.12  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -10.11                                   | 9.12  | 13.31                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.03                                     | 0.12  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.03                                    | 0.35  | 0.58                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.84                                     | 1.33  | 1.46                    |                                  |
| SLD72153        | SLD72153                     | 10/16/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.09                                     | 0.09  | 0.15                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.07  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 2.54                                     | 0.42  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.03                                     | 0.38  | 0.68                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.61                                     | 0.09  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.14                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.62                                     | 0.43  | 0.44                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.85                                     | 0.75  | 0.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.36                                     | 0.30  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.21                                     | 0.20  | 0.34                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.19                                     | 1.06  | 0.86                    |                                  |
|                 | SLD72180                     | 10/16/02        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.12                                     | 0.10  | 0.16                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.04                                    | 0.05  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.01                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 8.81                                     | 0.78  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.11                                    | 0.45  | 0.68                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.18                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.50                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.30                                     | 0.59  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.36                                     | 0.60  | 0.33                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.65                                     | 0.40  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.06                                    | 0.19  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.30                                     | 0.49  | 0.87                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72153        | SLD72196                     | 10/16/02        | 3.3                               | 3.8                |                                  | Actinium-227     | 0.32                                     | 0.16  | 0.27                    | 0.03                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.09  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 16.44                                    | 1.47  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.09                                    | 0.63  | 0.97                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.60                                     | 0.11  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.02                                     | 0.12  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.03                                     | 0.55  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.62                                     | 0.70  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.51                                     | 0.67  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.09                                     | 0.28  | 0.48                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.43                                     | 0.80  | 1.42                    |                                  |
|                 | SLD72205                     | 10/16/02        | 5.5                               | 6.0                |                                  | Actinium-227     | 0.19                                     | 0.14  | 0.22                    | 0.04                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.09  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.02                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 17.44                                    | 1.38  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.07                                     | 0.59  | 0.91                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.34                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.09                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.86                                     | 0.48  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.67                                     | 0.68  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.73                                     | 0.70  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.04                                     | 0.25  | 0.42                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.42                                     | 0.94  | 1.16                    |                                  |
| SLD72154        | SLD72154                     | 10/16/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.07                                     | 0.08  | 0.14                    | 0.03                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.05  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.60                                     | 0.39  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.03                                    | 0.35  | 0.61                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.44                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.16                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.29                                     | 0.28  | 0.36                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.07                                     | 0.75  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.37                                     | 0.29  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.12                                     | 0.17  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.45                                     | 0.72  | 0.73                    |                                  |
|                 | SLD72181                     | 10/16/02        | 1.2                               | 1.7                |                                  | Actinium-227     | 0.18                                     | 0.13  | 0.29                    | 0.22                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.07                                     | 0.11  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 7.43                                     | 0.88  | 0.41                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.47                                     | 0.74  | 1.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 4.84                                     | 0.19  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.51                                     | 0.12  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 2.09                                     | 0.82  | 0.41                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 4.08                                     | 1.23  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.14                                     | 0.57  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.10                                     | 0.34  | 0.57                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.56                                     | 1.54  | 1.55                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72155        | SLD72155                     | 10/17/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.10                                     | 0.07  | 0.10                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.56                                     | 0.34  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.15                                     | 0.38  | 0.45                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.62                                     | 0.07  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.13                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.13                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.52                                     | 1.95  | 3.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.13                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.04                                     | 0.13  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.26                                     | 0.30  | 0.30                    |                                  |
|                 | SLD72182                     | 10/17/02        | 1.2                               | 1.7                |                                  | Actinium-227     | 0.13                                     | 0.09  | 0.14                    | 0.09                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.02                                    | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 7.12                                     | 0.58  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.48                                     | 0.33  | 0.56                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.65                                     | 0.07  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.44                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.44                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.51                                     | 2.62  | 4.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.44                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.36                                     | 0.16  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 5.36                                     | 0.56  | 0.41                    |                                  |
| SLD72156        | SLD72156                     | 10/21/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.01                                     | 0.08  | 0.13                    | 0.31                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.05  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.04                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.89                                     | 0.41  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.13                                     | 0.35  | 0.63                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.46                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.14                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.14                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.30                                     | 4.34  | 6.90                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.14                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.21                                     | 0.20  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.65                                     | 0.81  | 0.73                    |                                  |
|                 | SLD72183                     | 10/21/02        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.17                                     | 0.15  | 0.23                    | 0.30                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.09  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 8.13                                     | 0.82  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.04                                     | 0.67  | 1.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 4.02                                     | 0.16  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.85                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.85                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.62                                     | 7.69  | 11.82                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.85                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.07                                    | 0.30  | 0.47                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.00                                     | 1.22  | 1.27                    |                                  |

Table C-1  
PSC Metals Vicinity Property (DT-8)  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72156        | SLD72197                     | 10/21/02        | 2.7                                | 3.3                |                                  | Actinium-227     | 0.14                                     | 0.12  | 0.20                    | 0.18                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.07  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 6.97                                     | 0.75  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.31                                     | 0.37  | 0.82                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.40                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.44                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.44                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.14                                     | 5.45  | 9.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.44                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.06                                    | 0.23  | 0.38                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.53                                     | 0.90  | 0.98                    |                                  |
|                 | SLD72206                     | 10/21/02        | 5                                  | 5.5                |                                  | Actinium-227     | 0.18                                     | 0.16  | 0.25                    | 0.36                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.05                                     | 0.10  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.70                                    | 1.01  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.22                                     | 0.69  | 1.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 4.09                                     | 0.17  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.91                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.91                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 5.05                                     | 8.32  | 13.02                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.91                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.13                                     | 0.32  | 0.54                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 4.33                                     | 1.53  | 1.37                    |                                  |
| SLD72157        | SLD72157                     | 10/21/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 1.35                                     | 0.14  | 0.21                    | 1.54                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.05                                     | 0.12  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.08                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 9.67                                     | 0.82  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 1.24                                     | 0.73  | 1.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 5.27                                     | 0.19  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.19                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.19                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -1.64                                    | 9.38  | 14.23                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.19                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 1.26                                     | 0.34  | 0.53                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 24.18                                    | 2.16  | 1.52                    |                                  |
|                 | SLD72184                     | 10/21/02        | 0.8                                | 2.0                |                                  | Actinium-227     | 0.36                                     | 0.38  | 0.56                    | 0.32                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.18                                    | 0.59  | 0.93                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.04                                    | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 10.99                                    | 1.63  | 0.94                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -1.53                                    | 1.35  | 2.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.23                                     | 0.22  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.00                                     | 0.18  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.78                                     | 0.45  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 3.10                                     | 0.99  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.24                                     | 0.57  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.54                                     | 0.66  | 1.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 13.32                                    | 5.73  | 6.60                    |                                  |



**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup><br>(pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup><br>Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|---------------------------------------------|-------|-------------------------|-------------------------------------|
| SLD72159        | SLD72159                     | 02/11/03        | 0                                  | 0.5                | 0.0                              | Actinium-227     | -0.02                                       | 0.23  | 0.36                    | 0.00                                |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.04                                        | 0.07  | 0.12                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.03                                        | 0.05  | 0.09                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 4.86                                        | 1.65  | 0.87                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.32                                       | 1.07  | 1.85                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.05                                        | 0.16  | 0.17                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.28                                        | 0.13  | 0.19                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.28                                        | 0.24  | 0.29                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.92                                        | 0.40  | 0.11                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.12                                        | 0.14  | 0.11                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.28                                        | 0.47  | 0.82                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.16                                        | 0.90  | 1.06                    |                                     |
|                 | SLD72185                     | 02/11/03        | 1                                  | 1.5                |                                  | Actinium-227     | 0.22                                        | 0.34  | 0.53                    | 0.24                                |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.03                                        | 0.10  | 0.17                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                        | 0.06  | 0.09                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 10.52                                       | 2.14  | 0.88                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.85                                        | 1.56  | 2.47                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 4.02                                        | 0.25  | 0.23                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.11                                        | 0.21  | 0.24                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.93                                        | 0.49  | 0.47                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 4.04                                        | 1.10  | 0.14                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.97                                        | 0.70  | 0.14                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.28                                       | 0.59  | 0.96                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.65                                        | 1.79  | 1.47                    |                                     |
| SLD72160        | SLD72160                     | 10/16/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.06                                        | 0.09  | 0.15                    | 0.00                                |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                        | 0.06  | 0.10                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                        | 0.01  | 0.02                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 2.21                                        | 0.39  | 0.29                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.19                                        | 0.40  | 0.65                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.50                                        | 0.08  | 0.06                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.18                                        | 0.04  | 0.06                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.31                                        | 0.29  | 0.17                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.57                                        | 0.68  | 0.31                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.06                                        | 0.12  | 0.17                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.04                                        | 0.20  | 0.32                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.90                                        | 0.52  | 0.96                    |                                     |
|                 | SLD72186                     | 10/16/02        | 1.2                                | 1.7                |                                  | Actinium-227     | 0.24                                        | 0.14  | 0.24                    | 0.04                                |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.04                                        | 0.09  | 0.14                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                        | 0.02  | 0.03                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 9.10                                        | 0.96  | 0.28                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.09                                       | 0.66  | 1.01                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.44                                        | 0.13  | 0.09                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.72                                        | 0.09  | 0.09                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.40                                        | 0.64  | 0.40                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.16                                        | 0.81  | 0.30                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.22                                        | 0.58  | 0.30                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.42                                        | 0.36  | 0.49                    |                                     |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.13                                        | 1.19  | 1.21                    |                                     |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72160        | SLD72198                     | 10/16/02        | 3.2                               | 3.7                |                                  | Actinium-227     | 0.22                                     | 0.14  | 0.23                    | 0.03                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.09  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.92                                     | 0.97  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.07                                     | 0.64  | 1.00                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.14                                     | 0.12  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.64                                     | 0.08  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.97                                     | 0.80  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.09                                     | 0.82  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.28                                     | 0.61  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.08                                     | 0.27  | 0.46                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.56                                     | 1.07  | 1.17                    |                                  |
|                 | SLD72207                     | 10/16/02        | 5                                 | 5.5                |                                  | Actinium-227     | 0.20                                     | 0.16  | 0.27                    | 0.02                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.09                                     | 0.11  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 16.80                                    | 1.43  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.08                                    | 0.61  | 1.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.58                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.22                                     | 0.12  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.63                                     | 0.65  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.43                                     | 0.59  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.38                                     | 0.58  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.13                                    | 0.30  | 0.48                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.72                                     | 1.15  | 1.31                    |                                  |
| SLD72161        | SLD72161                     | 10/29/02        | 0.5                               | 1.0                | 0.5                              | Actinium-227     | 0.07                                     | 0.08  | 0.12                    | 0.02                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 5.93                                     | 0.54  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.24                                     | 0.32  | 0.51                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.17                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.36                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.91                                     | 0.48  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.81                                     | 0.70  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.44                                     | 0.32  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.30                                     | 0.17  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.45                                     | 0.45  | 0.36                    |                                  |
|                 | SLD72187                     | 10/29/02        | 1.7                               | 2.2                |                                  | Actinium-227     | 0.18                                     | 0.09  | 0.14                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.65                                     | 0.75  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.04                                    | 0.39  | 0.59                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.56                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.69                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.14                                     | 0.55  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.92                                     | 0.75  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.95                                     | 0.50  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.01                                     | 0.16  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.05                                     | 0.46  | 0.36                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72162        | SLD72162                     | 10/23/02        | 0.5                                | 1.0                | 0.5                              | Actinium-227     | -0.04                                    | 0.17  | 0.26                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.07                                    | 0.12  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 5.64                                     | 0.95  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.05                                     | 0.71  | 1.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.27                                     | 0.12  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.31                                     | 0.09  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.66                                     | 0.42  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.31                                     | 0.61  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.42                                     | 0.33  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.21                                     | 0.33  | 0.58                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.78                                     | 1.71  | 1.52                    |                                  |
|                 | SLD72188                     | 10/23/02        | 2                                  | 2.5                |                                  | Actinium-227     | 0.62                                     | 0.17  | 0.29                    | 0.20                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.11                                     | 0.11  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.03                                    | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.63                                    | 1.10  | 0.38                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.10                                     | 0.75  | 1.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 4.24                                     | 0.17  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.11                                     | 0.11  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 2.55                                     | 0.86  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 4.08                                     | 1.17  | 0.33                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.18                                     | 0.55  | 0.33                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.14                                     | 0.34  | 0.57                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.86                                     | 1.47  | 1.46                    |                                  |
| SLD72163        | SLD72163                     | 10/22/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | -0.13                                    | 0.17  | 0.25                    | 0.09                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.08                                     | 0.03  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 2.88                                     | 0.65  | 0.41                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.51                                    | 0.76  | 1.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.39                                     | 0.12  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.17                                     | 0.07  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.17                                     | 0.24  | 0.40                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.32                                     | 0.89  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.13                                     | 0.19  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.02                                    | 0.32  | 0.55                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.96                                     | 1.25  | 1.51                    |                                  |
|                 | SLD72189                     | 10/22/02        | 1                                  | 1.5                |                                  | Actinium-227     | 0.30                                     | 0.18  | 0.29                    | 0.22                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.05                                     | 0.11  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.34                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 10.04                                    | 1.02  | 0.42                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.18                                     | 0.76  | 1.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.23                                     | 0.16  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.00                                     | 0.11  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 2.36                                     | 0.87  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 4.10                                     | 1.23  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.78                                     | 0.73  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.20                                     | 0.34  | 0.57                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.15                                     | 1.76  | 1.43                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72163        | SLD72199                     | 10/22/02        | 3                                 | 3.5                |                                  | Actinium-227     | 0.10                                     | 0.10  | 0.20                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.08  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.73                                    | 0.96  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.66                                     | 0.52  | 0.89                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.47                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.56                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.08                                     | 0.51  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.43                                     | 0.60  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.58                                     | 0.36  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.17                                     | 0.23  | 0.39                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.59                                     | 0.95  | 1.05                    |                                  |
|                 | SLD72208                     | 10/22/02        | 5.2                               | 5.7                |                                  | Actinium-227     | 0.14                                     | 0.15  | 0.24                    | 0.01                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.03                                    | 0.09  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 14.11                                    | 1.22  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.40                                     | 0.67  | 1.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.57                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.77                                     | 0.09  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.12                                     | 0.56  | 0.39                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.65                                     | 0.68  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.19                                     | 0.56  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.04                                    | 0.27  | 0.45                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.84                                     | 1.21  | 1.22                    |                                  |
| SLD72164        | SLD72164                     | 10/22/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.19                                     | 0.14  | 0.24                    | 0.03                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.08  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.03                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 5.32                                     | 0.79  | 0.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.03                                     | 0.63  | 0.99                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.91                                     | 0.12  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.47                                     | 0.08  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.59                                     | 0.67  | 0.39                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.78                                     | 0.71  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.80                                     | 0.45  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.09                                    | 0.29  | 0.48                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.96                                     | 1.25  | 1.18                    |                                  |
|                 | SLD72190                     | 10/22/02        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.06                                     | 0.11  | 0.17                    | 0.01                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.09                                     | 0.07  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 8.43                                     | 0.92  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.05                                     | 0.47  | 0.74                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.35                                     | 0.09  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.53                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.84                                     | 0.46  | 0.36                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.68                                     | 0.66  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.80                                     | 0.44  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.10                                     | 0.23  | 0.39                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.70                                     | 1.03  | 0.98                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72165        | SLD72165                     | 10/29/02        | 0.5                               | 1.4                | 0.5                              | Actinium-227     | 0.42                                     | 0.27  | 0.44                    | 0.11                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.08  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.03                                    | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 7.02                                     | 1.32  | 0.65                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 1.10                                     | 1.13  | 1.85                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.89                                     | 0.19  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.83                                     | 0.14  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 2.06                                     | 0.86  | 0.47                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.27                                     | 1.13  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.91                                     | 0.53  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.35                                     | 0.43  | 0.78                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.52                                     | 1.40  | 1.15                    |                                  |
|                 | SLD72191                     | 10/29/02        | 1.7                               | 2.2                |                                  | Actinium-227     | 0.07                                     | 0.06  | 0.13                    | 0.01                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 8.50                                     | 0.67  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.07                                    | 0.38  | 0.58                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.83                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.60                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.33                                     | 0.61  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.14                                     | 0.80  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.05                                     | 0.52  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.09                                     | 0.16  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.40                                     | 0.45  | 0.39                    |                                  |
|                 | SLD72200                     | 10/29/02        | 3.9                               | 4.4                |                                  | Actinium-227     | 0.42                                     | 0.28  | 0.47                    | 0.03                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.09  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.07                                    | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 14.93                                    | 1.77  | 0.78                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.07                                     | 1.38  | 2.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.33                                     | 0.22  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.05                                     | 0.21  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.12                                     | 0.54  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.74                                     | 0.68  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.23                                     | 0.56  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.04                                     | 0.51  | 0.88                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.51                                     | 1.65  | 1.43                    |                                  |
|                 | SLD72209                     | 10/29/02        | 5                                 | 5.5                |                                  | Actinium-227     | 0.22                                     | 0.12  | 0.19                    | 0.02                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 19.20                                    | 1.37  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.24                                    | 0.50  | 0.75                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.81                                     | 0.09  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.96                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.13                                     | 0.55  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.53                                     | 0.66  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.35                                     | 0.61  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.18                                    | 0.22  | 0.36                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.11                                     | 0.55  | 0.54                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72210        | SLD72210                     | 01/16/03        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.17                                     | 0.07  | 0.11                    | 0.06                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.01                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 1.74                                     | 0.27  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.24                                     | 0.25  | 0.40                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.11                                     | 0.05  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.32                                     | 0.04  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.94                                     | 0.51  | 0.43                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.22                                     | 0.81  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.17                                     | 0.20  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.01                                     | 0.11  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.58                                     | 0.29  | 0.26                    |                                  |
|                 | SLD72401                     | 01/16/03        | 0.5                                | 1.0                |                                  | Actinium-227     | 0.15                                     | 0.06  | 0.10                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.06                                     | 0.01  | 0.01                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 4.92                                     | 0.42  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.20                                    | 0.25  | 0.37                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.09                                     | 0.05  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.25                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.40                                     | 0.28  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.28                                     | 0.52  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.18                                     | 0.18  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.04                                     | 0.11  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.62                                     | 0.26  | 0.26                    |                                  |
| SLD72211        | SLD72211                     | 01/16/03        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.04                                     | 0.04  | 0.09                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.01                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 1.70                                     | 0.23  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.07                                     | 0.22  | 0.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.13                                     | 0.05  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.17                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.11                                     | 0.35  | 0.84                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.11                                     | 0.77  | 0.58                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.57                                     | 0.53  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.03                                     | 0.10  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.51                                     | 0.21  | 0.23                    |                                  |
|                 | SLD72402                     | 01/16/03        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.17                                     | 0.09  | 0.14                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.05                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 8.04                                     | 0.66  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.05                                     | 0.36  | 0.56                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.43                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.42                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.56                                     | 0.35  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.20                                     | 0.52  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.61                                     | 0.36  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.28                                     | 0.15  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.98                                     | 0.37  | 0.36                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72212        | SLD72212                     | 01/15/03        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.13                                     | 0.10  | 0.15                    | 0.77                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.15                                    | 0.12  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 1.75                                     | 0.27  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.15                                    | 0.39  | 0.64                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.13                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.11                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.11                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -3.35                                    | 8.08  | 11.58                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.11                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.01                                     | 0.18  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.80                                     | 0.89  | 1.56                    |                                  |
|                 | SLD72403                     | 01/15/03        | 1                                  | 1.5                |                                  | Actinium-227     | 1.64                                     | 0.20  | 0.32                    | 0.47                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.15                                    | 0.19  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.45                                    | 0.93  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.98                                     | 0.63  | 0.98                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.02                                     | 0.10  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.81                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.81                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -6.54                                    | 11.49 | 18.09                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.81                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.12                                    | 0.27  | 0.45                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.93                                     | 1.36  | 2.31                    |                                  |
|                 | SLD72409                     | 01/15/03        | 3                                  | 3.5                |                                  | Actinium-227     | 1.64                                     | 0.20  | 0.33                    | 0.47                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.04                                     | 0.20  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 15.34                                    | 1.19  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 1.30                                     | 0.64  | 1.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.60                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.77                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.77                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -5.74                                    | 13.65 | 18.08                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.77                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.12                                     | 0.27  | 0.46                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.41                                     | 1.51  | 2.31                    |                                  |
|                 | SLD72411                     | 01/15/03        | 4.5                                | 5.0                |                                  | Actinium-227     | 1.75                                     | 0.19  | 0.30                    | 0.41                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.10                                    | 0.16  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.01  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 16.31                                    | 1.15  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.88                                     | 0.55  | 0.86                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.36                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.85                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.85                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 3.54                                     | 11.07 | 16.27                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.85                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.05                                    | 0.24  | 0.41                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.38                                     | 1.23  | 2.05                    |                                  |

**Table C-1**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72213        | SLD72213                     | 01/21/03        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.72                                     | 0.12  | 0.23                    | 1.08                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.06                                     | 0.15  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.02                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 4.45                                     | 0.49  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.16                                     | 0.53  | 0.79                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.08                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.34                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.34                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 5.45                                     | 11.55 | 14.71                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.34                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.06                                     | 0.21  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.74                                     | 1.03  | 1.76                    |                                  |
|                 | SLD72404                     | 01/21/03        | 1.5                               | 2.0                |                                  | Actinium-227     | 2.00                                     | 0.23  | 0.36                    | 0.55                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.18                                     | 0.22  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.05                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 14.04                                    | 1.10  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.96                                     | 0.71  | 1.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.68                                     | 0.12  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.85                                     | 0.08  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.85                                     | 0.08  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -6.29                                    | 14.37 | 20.50                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.85                                     | 0.08  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.12                                     | 0.30  | 0.51                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.92                                     | 1.81  | 2.58                    |                                  |
| SLD72397        | SLD72397                     | 01/27/03        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.36                                     | 0.12  | 0.19                    | 0.21                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.09                                    | 0.14  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.02                                     | 0.01  | 0.01                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 1.87                                     | 0.34  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.39                                     | 0.46  | 0.72                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.03                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.11                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.34                                     | 0.34  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.99                                     | 1.15  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.00                                     | 0.00  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.19                                     | 0.22  | 0.36                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.18                                     | 1.08  | 1.81                    |                                  |
|                 | SLD72405                     | 01/27/03        | 1.5                               | 2.0                |                                  | Actinium-227     | 1.12                                     | 0.16  | 0.27                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.12                                    | 0.15  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.10                                    | 0.81  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.15                                    | 0.47  | 0.76                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.91                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.39                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.86                                     | 0.48  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.92                                     | 0.76  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.66                                     | 0.42  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.10                                    | 0.26  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.82                                     | 1.13  | 1.92                    |                                  |



**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72398        | SLD72398                     | 01/22/03        | 1                                 | 1.5                | 1.0                              | Actinium-227     | 0.08                                     | 0.04  | 0.18                    | 0.27                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.07                                    | 0.12  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 3.81                                     | 0.51  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.05                                     | 0.41  | 0.66                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.02                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.19                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.19                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -1.86                                    | 8.25  | 11.98                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.19                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.02                                    | 0.19  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.09                                     | 0.94  | 1.65                    |                                  |
|                 | SLD72406                     | 01/22/03        | 2                                 | 2.6                |                                  | Actinium-227     | 0.43                                     | 0.11  | 0.19                    | 0.28                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.04                                    | 0.14  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.02                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 3.86                                     | 0.49  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.15                                     | 0.46  | 0.68                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.02                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.22                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.22                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.47                                     | 8.26  | 12.19                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.22                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.07                                     | 0.19  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.44                                     | 1.22  | 1.57                    |                                  |
| SLD72399        | SLD72399                     | 02/13/03        | 0                                 | 0.5                |                                  | Actinium-227     | 0.22                                     | 0.12  | 0.20                    | 0.51                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.07  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 8.14                                     | 0.77  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.04                                    | 0.70  | 0.78                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.56                                     | 0.09  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.43                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.43                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.51                                     | 5.33  | 8.94                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.43                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.08                                     | 0.22  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.19                                     | 0.76  | 0.99                    |                                  |
|                 | SLD72407                     | 02/13/03        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.28                                     | 0.18  | 0.30                    | 0.39                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.05                                     | 0.11  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 11.57                                    | 1.16  | 0.36                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.73                                     | 0.79  | 1.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.53                                     | 0.17  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.01                                     | 0.12  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.01                                     | 0.12  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 6.30                                     | 8.43  | 14.18                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.01                                     | 0.12  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.29                                     | 0.36  | 0.61                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.69                                     | 1.52  | 1.47                    |                                  |

Table C-1  
PSC Metals Vicinity Property (DT-8)  
Pre-Design Investigation Radiological Data Results

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72399        | SLD72410                     | 02/13/03        | 3                                  | 3.5                |                                  | Actinium-227     | 0.12                                     | 0.14  | 0.22                    | 0.22                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.11                                    | 0.09  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 15.13                                    | 1.26  | 0.33                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.66                                     | 0.59  | 0.97                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.92                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.98                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.98                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -5.11                                    | 7.03  | 10.52                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.98                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.21                                    | 0.27  | 0.43                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.45                                     | 1.15  | 1.15                    |                                  |
|                 | SLD72412                     | 02/13/03        | 5                                  | 5.5                |                                  | Actinium-227     | 0.36                                     | 0.14  | 0.24                    | 0.24                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.08                                     | 0.09  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 13.56                                    | 1.22  | 0.34                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.46                                     | 0.62  | 1.00                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.87                                     | 0.11  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.74                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.74                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.03                                     | 7.22  | 11.15                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.74                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.17                                     | 0.28  | 0.45                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.37                                     | 1.17  | 1.17                    |                                  |
| SLD72400        | SLD72400                     | 01/28/03        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.03                                     | 0.06  | 0.09                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.01                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 1.56                                     | 0.30  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.01                                    | 0.24  | 0.41                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.85                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.13                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.38                                     | 0.45  | 0.34                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.19                                     | 0.83  | 0.70                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.25                                     | 0.35  | 0.34                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.03                                    | 0.12  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.61                                     | 0.27  | 0.27                    |                                  |
|                 | SLD72408                     | 01/28/03        | 1                                  | 1.8                |                                  | Actinium-227     | 0.25                                     | 0.09  | 0.15                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.23                                    | 0.88  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.15                                     | 0.38  | 0.59                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.27                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.71                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.12                                     | 0.62  | 0.37                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.83                                     | 0.81  | 0.37                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.50                                     | 0.40  | 0.37                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.03                                    | 0.17  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.97                                     | 0.44  | 0.44                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72413        | SLD72413                     | 11/20/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.26                                     | 0.14  | 0.21                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.10                                     | 0.08  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.03                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 2.66                                     | 0.52  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.39                                    | 0.51  | 0.86                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.36                                     | 0.12  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.35                                     | 0.06  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.67                                     | 0.41  | 0.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.50                                     | 0.62  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.32                                     | 0.27  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.15                                     | 0.26  | 0.44                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.99                                     | 0.97  | 1.07                    |                                  |
|                 | SLD72431                     | 11/20/02        | 0.5                                | 1.0                |                                  | Actinium-227     | 0.37                                     | 0.16  | 0.27                    | 0.07                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.07                                     | 0.10  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.16                                     | 0.04  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 7.51                                     | 0.83  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.61                                     | 0.92  | 1.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.19                                     | 0.15  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.52                                     | 0.09  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.18                                     | 0.55  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.36                                     | 0.82  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.17                                     | 0.54  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.12                                     | 0.31  | 0.53                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.12                                     | 1.14  | 1.30                    |                                  |
|                 | SLD72449                     | 11/20/02        | 2.5                                | 3.0                |                                  | Actinium-227     | 0.21                                     | 0.16  | 0.26                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.11                                     | 0.10  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.51                                    | 1.15  | 0.43                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.38                                     | 0.70  | 1.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.52                                     | 0.14  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.85                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.33                                     | 0.59  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.02                                     | 0.75  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.71                                     | 0.41  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.01                                     | 0.32  | 0.53                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.51                                     | 1.24  | 1.35                    |                                  |
|                 | SLD72456                     | 11/20/02        | 5                                  | 5.5                |                                  | Actinium-227     | 0.12                                     | 0.07  | 0.12                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 13.25                                    | 0.91  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.07                                     | 0.31  | 0.48                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.99                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.64                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.64                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.84                                     | 2.13  | 3.51                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.64                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.06                                     | 0.13  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.67                                     | 0.32  | 0.33                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72414        | SLD72414                     | 12/11/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 1.66                                     | 0.20  | 0.30                    | 0.21                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.11                                     | 0.21  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.24                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 9.19                                     | 0.75  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.66                                     | 0.50  | 0.98                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.17                                     | 0.13  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.70                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.11                                     | 0.50  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.71                                     | 0.83  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.98                                     | 0.46  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.20                                     | 0.29  | 0.48                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 4.38                                     | 1.81  | 2.46                    |                                  |
|                 | SLD72432                     | 12/11/02        | 0.5                                | 1.0                |                                  | Actinium-227     | 1.90                                     | 0.24  | 0.38                    | 0.21                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.26                                     | 0.26  | 0.40                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.19                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 9.59                                     | 0.91  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 1.01                                     | 1.19  | 1.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.81                                     | 0.16  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.77                                     | 0.08  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.75                                     | 0.44  | 0.38                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.73                                     | 0.91  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.68                                     | 0.67  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.43                                     | 0.31  | 0.59                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 6.38                                     | 2.51  | 2.97                    |                                  |
| SLD72415        | SLD72415                     | 11/18/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.12                                     | 0.23  | 0.38                    | 0.09                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.11                                     | 0.17  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.15                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 6.21                                     | 1.25  | 0.60                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.02                                    | 1.14  | 1.80                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.12                                     | 0.18  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.61                                     | 0.14  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.67                                     | 0.39  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.38                                     | 0.78  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.67                                     | 0.38  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.02                                    | 0.45  | 0.77                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.42                                     | 1.27  | 2.10                    |                                  |
|                 | SLD72433                     | 11/18/02        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.34                                     | 0.38  | 0.65                    | 0.23                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.02                                    | 0.25  | 0.45                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.07  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.90                                    | 1.97  | 0.96                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -1.84                                    | 2.03  | 2.87                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 4.13                                     | 0.30  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.35                                     | 0.25  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 2.16                                     | 0.79  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 4.55                                     | 1.27  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.80                                     | 0.70  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.69                                     | 0.70  | 1.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.32                                     | 2.23  | 4.08                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of Ratios Value <sup>5</sup> |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72416        | SLD72416                     | 11/21/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.12                                     | 0.15  | 0.24                    | 0.05                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.02                                    | 0.09  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.08                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 4.88                                     | 0.69  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.08                                     | 0.63  | 0.99                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.95                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.51                                     | 0.08  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.73                                     | 0.43  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.21                                     | 0.80  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.72                                     | 0.43  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.28                                     | 0.28  | 0.49                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.15                                     | 1.05  | 1.24                    |                                  |
|                 | SLD72434                     | 11/21/02        | 0.5                               | 1.0                |                                  | Actinium-227     | 0.29                                     | 0.15  | 0.24                    | 0.09                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.07                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.79                                    | 0.98  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.25                                     | 0.57  | 0.91                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.94                                     | 0.13  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.92                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.34                                     | 0.61  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.95                                     | 0.97  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.34                                     | 0.60  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.05                                    | 0.27  | 0.45                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.65                                     | 0.66  | 0.65                    |                                  |
| SLD72417        | SLD72417                     | 02/19/03        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.11                                     | 0.11  | 0.18                    | 0.02                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.05                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.11                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 7.05                                     | 0.71  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.10                                     | 0.52  | 0.79                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.92                                     | 0.10  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.63                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.51                                     | 0.34  | 0.42                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.01                                     | 0.66  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.69                                     | 0.36  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.02                                    | 0.22  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.97                                     | 0.57  | 0.53                    |                                  |
|                 | SLD72435                     | 02/19/03        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.32                                     | 0.25  | 0.43                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.07  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 7.84                                     | 1.60  | 0.82                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.94                                    | 1.15  | 1.89                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.09                                     | 0.14  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.45                                     | 0.14  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.61                                     | 0.30  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.54                                     | 0.50  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.57                                     | 0.29  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.20                                    | 0.47  | 0.77                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.64                                     | 0.74  | 1.37                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72417        | SLD72450                     | 02/19/03        | 3.5                                | 3.8                |                                  | Actinium-227     | 1.21                                     | 0.36  | 0.63                    | 0.11                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.04                                    | 0.10  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.05  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 13.31                                    | 1.65  | 0.77                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -1.00                                    | 1.29  | 2.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.90                                     | 0.25  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.31                                     | 0.20  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.16                                     | 0.58  | 0.44                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 3.16                                     | 1.01  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.82                                     | 0.47  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.13                                     | 0.57  | 0.98                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.36                                     | 1.04  | 1.88                    |                                  |
|                 | SLD72457                     | 02/19/03        | 5.5                                | 6.0                |                                  | Actinium-227     | 0.08                                     | 0.07  | 0.24                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 19.72                                    | 1.38  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.03                                     | 0.45  | 0.69                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.49                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.94                                     | 0.09  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.20                                     | 0.49  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.68                                     | 0.58  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.20                                     | 0.48  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.27                                    | 0.20  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.88                                     | 0.58  | 0.52                    |                                  |
| SLD72418        | SLD72418                     | 12/11/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.66                                     | 0.14  | 0.24                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.06                                    | 0.15  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.04                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 3.52                                     | 0.45  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.16                                     | 0.46  | 0.81                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.93                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.29                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.30                                     | 0.26  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.33                                     | 0.57  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.51                                     | 0.33  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.12                                     | 0.22  | 0.38                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.11                                     | 1.13  | 1.91                    |                                  |
|                 | SLD72436                     | 12/11/02        | 1.5                                | 2.0                |                                  | Actinium-227     | 1.62                                     | 0.22  | 0.34                    | 0.21                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.18                                     | 0.24  | 0.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 7.29                                     | 0.75  | 0.34                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 1.29                                     | 0.75  | 1.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 4.24                                     | 0.17  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.63                                     | 0.08  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.43                                     | 0.60  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 4.18                                     | 1.17  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.90                                     | 0.46  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.08                                     | 0.35  | 0.58                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 4.41                                     | 2.01  | 2.77                    |                                  |

**Table C-1**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72419        | SLD72419                     | 11/13/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.02                                     | 0.10  | 0.16                    | 0.06                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.03                                     | 0.06  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.05                                     | 0.03  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 3.65                                     | 0.52  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.09                                     | 0.46  | 0.74                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.38                                     | 0.09  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.33                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.50                                     | 0.38  | 0.40                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.21                                     | 0.82  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.66                                     | 0.41  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.08                                    | 0.22  | 0.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.53                                     | 0.80  | 0.97                    |                                  |
|                 | SLD72437                     | 11/13/02        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.11                                     | 0.36  | 0.59                    | 0.17                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.08                                    | 0.24  | 0.37                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.04                                     | 0.06  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 9.63                                     | 1.96  | 1.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 2.24                                     | 1.55  | 2.98                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.99                                     | 0.25  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.13                                     | 0.23  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.77                                     | 0.75  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.97                                     | 1.02  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.67                                     | 0.72  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.12                                     | 0.69  | 1.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 4.56                                     | 2.92  | 3.20                    |                                  |
| SLD72420        | SLD72420                     | 11/18/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.09                                     | 0.10  | 0.17                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.05                                     | 0.06  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 2.43                                     | 0.45  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.10                                     | 0.42  | 0.76                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.01                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.33                                     | 0.06  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.31                                     | 0.34  | 0.49                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.79                                     | 0.80  | 0.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.43                                     | 0.36  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.10                                    | 0.22  | 0.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.57                                     | 0.97  | 0.87                    |                                  |
|                 | SLD72438                     | 11/18/02        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.75                                     | 0.45  | 0.79                    | 0.26                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.03                                     | 0.29  | 0.51                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.08                                    | 0.07  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.62                                    | 2.09  | 1.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.84                                     | 2.59  | 3.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 6.17                                     | 0.39  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.23                                     | 0.26  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.44                                     | 0.63  | 0.33                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 3.68                                     | 1.09  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.95                                     | 0.49  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.37                                     | 0.79  | 1.38                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.83                                     | 2.61  | 4.72                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72420        | SLD72451                     | 11/18/02        | 3.5                                | 4.0                |                                  | Actinium-227     | 0.04                                     | 0.11  | 0.18                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.03                                     | 0.07  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.02                                    | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 9.69                                     | 0.92  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.03                                    | 0.49  | 0.76                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.11                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.40                                     | 0.06  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.60                                     | 0.39  | 0.34                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.24                                     | 0.57  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.56                                     | 0.37  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.06                                     | 0.21  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.18                                     | 0.80  | 0.91                    |                                  |
|                 | SLD72458                     | 11/18/02        | 5.5                                | 6.0                |                                  | Actinium-227     | 0.10                                     | 0.12  | 0.20                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.06                                     | 0.07  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 10.38                                    | 0.99  | 0.33                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.05                                    | 0.56  | 0.86                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.29                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.50                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.70                                     | 0.42  | 0.33                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.27                                     | 0.57  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.54                                     | 0.36  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.15                                     | 0.24  | 0.41                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.47                                     | 0.96  | 1.02                    |                                  |
| SLD72421        | SLD72421                     | 02/18/03        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.12                                     | 0.06  | 0.11                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 1.79                                     | 0.31  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.21                                     | 0.29  | 0.46                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.81                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.24                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.53                                     | 0.31  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.98                                     | 0.61  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.53                                     | 0.29  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.01                                     | 0.13  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.98                                     | 0.31  | 0.30                    |                                  |
|                 | SLD72439                     | 02/18/03        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.03                                     | 0.11  | 0.17                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.04                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 5.76                                     | 0.65  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.21                                     | 0.49  | 0.75                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.80                                     | 0.09  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.70                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.98                                     | 0.40  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.83                                     | 0.57  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.94                                     | 0.40  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.31                                     | 0.21  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.50                                     | 0.55  | 0.50                    |                                  |



**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72422        | SLD72422                     | 02/19/03        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.41                                     | 0.19  | 0.33                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.02                                    | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 2.24                                     | 0.61  | 0.61                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.16                                    | 0.72  | 1.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.00                                     | 0.11  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.25                                     | 0.09  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.35                                     | 0.36  | 0.58                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.24                                     | 0.58  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.34                                     | 0.30  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.05                                     | 0.33  | 0.51                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | -0.24                                    | 0.53  | 0.92                    |                                  |
|                 | SLD72440                     | 02/19/03        | 1.5                                | 2.0                |                                  | Actinium-227     | 1.03                                     | 0.19  | 0.30                    | 0.25                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.02                                    | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 18.27                                    | 1.32  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 1.10                                     | 0.66  | 1.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 5.31                                     | 0.19  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.59                                     | 0.11  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.71                                     | 0.63  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 4.47                                     | 1.15  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.39                                     | 0.56  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.13                                     | 0.30  | 0.49                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.23                                     | 0.85  | 0.71                    |                                  |
| SLD72423        | SLD72423                     | 11/20/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.01                                     | 0.09  | 0.15                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 1.60                                     | 0.33  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.05                                     | 0.36  | 0.65                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.03                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.24                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.46                                     | 0.35  | 0.37                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.99                                     | 0.74  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.21                                     | 0.22  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.03                                    | 0.18  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.33                                     | 0.45  | 0.82                    |                                  |
|                 | SLD72441                     | 11/20/02        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.15                                     | 0.14  | 0.23                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.08                                     | 0.08  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 5.92                                     | 0.76  | 0.39                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.03                                    | 0.63  | 0.96                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.55                                     | 0.13  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.55                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.73                                     | 0.45  | 0.39                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.50                                     | 0.65  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.64                                     | 0.40  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.08                                     | 0.27  | 0.45                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.91                                     | 1.25  | 1.16                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72423        | SLD72452                     | 11/20/02        | 3.1                               | 3.6                |                                  | Actinium-227     | 0.23                                     | 0.12  | 0.28                    | 0.13                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.10  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.03                                    | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 13.69                                    | 1.24  | 0.41                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.28                                     | 0.75  | 1.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.11                                     | 0.15  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.03                                     | 0.11  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.46                                     | 0.63  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.55                                     | 1.06  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.36                                     | 0.59  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.20                                     | 0.33  | 0.55                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.87                                     | 1.28  | 1.41                    |                                  |
|                 | SLD72459                     | 11/20/02        | 5.1                               | 5.6                |                                  | Actinium-227     | 0.15                                     | 0.13  | 0.21                    | 0.01                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.08  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 15.55                                    | 1.27  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.33                                     | 0.54  | 0.87                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.38                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.85                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.50                                     | 0.63  | 0.36                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.16                                     | 0.77  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.91                                     | 0.47  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.13                                    | 0.25  | 0.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.44                                     | 0.97  | 1.14                    |                                  |
| SLD72424        | SLD72424                     | 11/13/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.03                                     | 0.06  | 0.10                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.02                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.59                                     | 0.36  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.21                                    | 0.27  | 0.44                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.82                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.18                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.18                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -0.01                                    | 1.83  | 2.85                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.18                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.09                                     | 0.12  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.72                                     | 0.32  | 0.28                    |                                  |
|                 | SLD72442                     | 11/13/02        | 0.5                               | 1.0                |                                  | Actinium-227     | 0.07                                     | 0.06  | 0.09                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.04                                     | 0.01  | 0.01                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 3.32                                     | 0.35  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.08                                     | 0.24  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.05                                     | 0.05  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.24                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.24                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.88                                     | 1.54  | 2.57                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.24                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.12                                     | 0.13  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.70                                     | 0.26  | 0.25                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72425        | SLD72425                     | 11/07/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.16                                     | 0.07  | 0.12                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 3.65                                     | 0.39  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.00                                     | 0.31  | 0.48                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.28                                     | 0.06  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.19                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.39                                     | 0.32  | 0.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.39                                     | 0.60  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.43                                     | 0.31  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.03                                    | 0.13  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.83                                     | 0.32  | 0.30                    |                                  |
|                 | SLD72443                     | 11/07/02        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.18                                     | 0.10  | 0.16                    | 0.02                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.04                                    | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.03                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.86                                    | 0.91  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.11                                     | 0.41  | 0.64                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.55                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.63                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.87                                     | 0.46  | 0.37                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.57                                     | 0.62  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.35                                     | 0.57  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.01                                    | 0.18  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.83                                     | 0.49  | 0.43                    |                                  |
| SLD72426        | SLD72426                     | 11/13/02        | 0                                  | 0.9                | 0.0                              | Actinium-227     | 0.10                                     | 0.07  | 0.11                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 2.77                                     | 0.32  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.07                                     | 0.29  | 0.46                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.22                                     | 0.06  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.19                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.19                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.20                                     | 1.81  | 3.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.19                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.01                                     | 0.13  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.93                                     | 0.31  | 0.29                    |                                  |
|                 | SLD72444                     | 11/13/02        | 1.5                                | 2.0                |                                  | Actinium-227     | -0.02                                    | 0.06  | 0.09                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 1.75                                     | 0.28  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.18                                    | 0.25  | 0.42                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.86                                     | 0.05  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.08                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.08                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -0.07                                    | 1.58  | 2.72                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.08                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.03                                    | 0.12  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.65                                     | 0.26  | 0.29                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft 'bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|---------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72426        | SLD72453                     | 11/13/02        | 3                                  | 3.5                 |                                  | Actinium-227     | 0.36                                     | 0.10  | 0.16                    | 0.01                             |
|                 |                              |                 |                                    |                     |                                  | Americium-241    | 0.01                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Potassium-40     | 9.23                                     | 0.71  | 0.21                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Protactinium-231 | 0.14                                     | 0.39  | 0.61                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Radium-226       | 2.35                                     | 0.10  | 0.05                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Radium-228       | 0.90                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Thorium-228      | 0.90                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Thorium-230      | 2.41                                     | 2.56  | 4.27                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Thorium-232      | 0.90                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Uranium-235      | 0.40                                     | 0.26  | 0.30                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Uranium-238      | 1.48                                     | 0.45  | 0.42                    |                                  |
|                 | SLD72460                     | 11/13/02        | 5                                  | 5.5                 |                                  | Actinium-227     | 0.07                                     | 0.06  | 0.10                    | 0.01                             |
|                 |                              |                 |                                    |                     |                                  | Americium-241    | 0.03                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.01                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Potassium-40     | 2.53                                     | 0.31  | 0.14                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Protactinium-231 | 0.14                                     | 0.29  | 0.45                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Radium-226       | 1.10                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Radium-228       | 0.26                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Thorium-228      | 0.26                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Thorium-230      | -0.24                                    | 1.88  | 2.90                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Thorium-232      | 0.26                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Uranium-235      | 0.14                                     | 0.13  | 0.23                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Uranium-238      | 2.07                                     | 0.29  | 0.28                    |                                  |
| SLD72427        | SLD72427                     | 11/07/02        | 0                                  | 0.5                 | 0.0                              | Actinium-227     | 0.05                                     | 0.07  | 0.11                    | 0.00                             |
|                 |                              |                 |                                    |                     |                                  | Americium-241    | 0.02                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Potassium-40     | 1.69                                     | 0.30  | 0.16                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Protactinium-231 | -0.09                                    | 0.29  | 0.44                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Radium-226       | 0.97                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Radium-228       | 0.23                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Thorium-228      | 0.85                                     | 0.48  | 0.41                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Thorium-230      | 1.22                                     | 0.56  | 0.28                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Thorium-232      | 0.11                                     | 0.16  | 0.15                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Uranium-235      | 0.01                                     | 0.12  | 0.21                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Uranium-238      | 0.69                                     | 0.26  | 0.26                    |                                  |
|                 | SLD72445                     | 11/07/02        | 1                                  | 2.0                 |                                  | Actinium-227     | 0.43                                     | 0.31  | 0.49                    | 0.35                             |
|                 |                              |                 |                                    |                     |                                  | Americium-241    | 0.02                                     | 0.09  | 0.14                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Cesium-137       | 0.02                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Potassium-40     | 10.86                                    | 1.42  | 0.82                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Protactinium-231 | 1.10                                     | 1.28  | 2.11                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Radium-226       | 6.46                                     | 0.30  | 0.21                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Radium-228       | 1.00                                     | 0.17  | 0.21                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Thorium-228      | 1.22                                     | 0.56  | 0.42                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Thorium-230      | 6.51                                     | 1.59  | 0.14                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Thorium-232      | 0.61                                     | 0.38  | 0.32                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Uranium-235      | -0.18                                    | 0.56  | 0.95                    |                                  |
|                 |                              |                 |                                    |                     |                                  | Uranium-238      | 3.34                                     | 1.55  | 1.31                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72428        | SLD72428                     | 02/04/03        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.19                                     | 0.16  | 0.25                    | 0.76                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.04                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 9.59                                     | 0.94  | 0.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.47                                     | 0.68  | 1.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 5.12                                     | 0.19  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.86                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.57                                     | 0.59  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 5.12                                     | 1.22  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.51                                     | 0.56  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.06                                     | 0.32  | 0.53                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.56                                     | 0.84  | 0.77                    |                                  |
|                 | SLD72446                     | 02/04/03        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.36                                     | 0.31  | 0.52                    | 0.04                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.09                                     | 0.10  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.06  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 5.65                                     | 1.67  | 1.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.84                                     | 1.47  | 2.37                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.06                                     | 0.23  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.73                                     | 0.18  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.81                                     | 0.40  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.96                                     | 0.63  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.48                                     | 0.29  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.29                                     | 0.61  | 1.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.74                                     | 1.33  | 1.46                    |                                  |
| SLD72429        | SLD72429                     | 11/07/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.09                                     | 0.08  | 0.12                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 4.09                                     | 0.43  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.12                                     | 0.35  | 0.55                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.51                                     | 0.09  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.33                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.88                                     | 0.46  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.86                                     | 0.69  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.26                                     | 0.24  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.03                                     | 0.15  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.04                                     | 0.38  | 0.35                    |                                  |
|                 | SLD72447                     | 11/07/02        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.21                                     | 0.18  | 0.27                    | 0.38                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.03                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 13.50                                    | 1.13  | 0.39                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.00                                     | 0.74  | 1.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 7.15                                     | 0.25  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.30                                     | 0.12  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.16                                     | 0.55  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 4.26                                     | 1.20  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.27                                     | 0.57  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.49                                     | 0.46  | 0.57                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 4.78                                     | 0.72  | 0.78                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72429        | SLD72454                     | 11/07/02        | 3.5                               | 4.0                |                                  | Actinium-227     | 0.18                                     | 0.12  | 0.22                    | 0.10                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 16.24                                    | 1.24  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.11                                     | 0.57  | 0.88                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.43                                     | 0.15  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.93                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.35                                     | 0.60  | 0.39                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.04                                     | 0.95  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.69                                     | 0.40  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.07                                     | 0.25  | 0.43                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.81                                     | 0.66  | 0.61                    |                                  |
|                 | SLD72461                     | 11/07/02        | 5.5                               | 6.0                |                                  | Actinium-227     | 0.10                                     | 0.08  | 0.18                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.02                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 16.02                                    | 1.19  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.36                                     | 0.46  | 0.75                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.11                                     | 0.10  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.94                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.11                                     | 0.54  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.84                                     | 0.71  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.11                                     | 0.53  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.09                                    | 0.21  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.50                                     | 0.63  | 0.53                    |                                  |
| SLD72430        | SLD72430                     | 01/29/03        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.04                                     | 0.06  | 0.09                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.01                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 1.65                                     | 0.29  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.27                                    | 0.26  | 0.42                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.97                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.16                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.42                                     | 0.27  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.41                                     | 0.50  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.18                                     | 0.16  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.09                                     | 0.12  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.72                                     | 0.27  | 0.28                    |                                  |
|                 | SLD72448                     | 01/29/03        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.07                                     | 0.08  | 0.13                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 6.88                                     | 0.63  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.10                                     | 0.36  | 0.55                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.41                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.42                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.09                                     | 0.42  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.90                                     | 0.57  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.16                                     | 0.16  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.05                                     | 0.16  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.32                                     | 0.46  | 0.36                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72430        | SLD72455                     | 01/29/03        | 3.5                               | 4.0                |                                  | Actinium-227     | -0.02                                    | 0.31  | 0.48                    | 0.11                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.01                                    | 0.10  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.05                                    | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 11.19                                    | 1.74  | 0.93                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.16                                     | 1.50  | 2.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 4.09                                     | 0.25  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.95                                     | 0.19  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.77                                     | 0.63  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.36                                     | 0.91  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.04                                     | 0.45  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.64                                    | 0.59  | 0.91                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.11                                     | 1.38  | 1.44                    |                                  |
|                 | SLD72462                     | 01/29/03        | 5                                 | 5.6                |                                  | Actinium-227     | 0.21                                     | 0.13  | 0.21                    | 0.02                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.76                                     | 0.94  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.49                                    | 0.54  | 0.89                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.70                                     | 0.12  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.78                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.69                                     | 0.60  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.93                                     | 0.63  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.08                                     | 0.46  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.29                                    | 0.26  | 0.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.40                                     | 0.78  | 0.63                    |                                  |
| SLD72463        | SLD72463                     | 11/20/02        | 0                                 | 1.0                | 0.0                              | Actinium-227     | -0.02                                    | 0.26  | 0.41                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.02                                    | 0.17  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.02                                     | 0.04  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 12.73                                    | 1.83  | 0.68                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.28                                     | 1.04  | 1.75                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.87                                     | 0.19  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.90                                     | 0.18  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.97                                     | 0.49  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.54                                     | 0.63  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.79                                     | 0.43  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.13                                     | 0.51  | 0.88                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.48                                     | 1.52  | 2.75                    |                                  |
|                 | SLD72487                     | 11/20/02        | 1.3                               | 1.8                |                                  | Actinium-227     | 0.31                                     | 0.14  | 0.24                    | 0.13                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.06                                     | 0.09  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.05                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 14.30                                    | 1.21  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.48                                    | 0.65  | 0.94                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.23                                     | 0.12  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.88                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.25                                     | 0.60  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.25                                     | 1.06  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.33                                     | 0.62  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.22                                     | 0.29  | 0.49                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.63                                     | 1.07  | 1.22                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72464        | SLD72464                     | 11/14/02        | 1                                  | 1.5                | 1.0                              | Actinium-227     | 0.73                                     | 0.24  | 0.45                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.07  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 14.20                                    | 1.50  | 0.54                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.97                                    | 0.93  | 1.54                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.55                                     | 0.14  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.69                                     | 0.14  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.12                                     | 0.52  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.19                                     | 0.51  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.01                                     | 0.47  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.16                                    | 0.38  | 0.63                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.00                                     | 1.09  | 1.03                    |                                  |
|                 | SLD72488                     | 11/14/02        | 2.2                                | 2.7                |                                  | Actinium-227     | 0.13                                     | 0.08  | 0.13                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 10.56                                    | 0.83  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.39                                     | 0.36  | 0.58                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.04                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.57                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.57                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.51                                     | 2.72  | 4.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.57                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.05                                    | 0.17  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.18                                     | 0.43  | 0.42                    |                                  |
|                 | SLD72511                     | 11/14/02        | 3.5                                | 4.0                |                                  | Actinium-227     | 0.12                                     | 0.09  | 0.14                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 10.14                                    | 0.86  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.24                                     | 0.38  | 0.60                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.14                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.58                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.58                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -1.45                                    | 2.67  | 4.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.58                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.10                                    | 0.17  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.90                                     | 0.41  | 0.45                    |                                  |
|                 | SLD72519                     | 11/14/02        | 6.3                                | 6.8                |                                  | Actinium-227     | 0.20                                     | 0.07  | 0.11                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 10.79                                    | 0.76  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.29                                     | 0.32  | 0.45                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.09                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.54                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.54                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.48                                     | 1.95  | 3.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.54                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.00                                     | 0.12  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.89                                     | 0.36  | 0.31                    |                                  |



**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72465        | SLD72465                     | 10/31/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.08                                     | 0.11  | 0.17                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.03                                     | 0.13  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 6.04                                     | 0.66  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.22                                     | 0.48  | 0.77                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.09                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.42                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.48                                     | 0.34  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.23                                     | 0.54  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.30                                     | 0.26  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.02                                     | 0.22  | 0.37                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.27                                     | 0.99  | 1.77                    |                                  |
|                 | SLD72489                     | 10/31/02        | 1                                  | 1.5                |                                  | Actinium-227     | 0.22                                     | 0.11  | 0.18                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.04                                     | 0.13  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.06                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 12.99                                    | 0.99  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.07                                    | 0.50  | 0.75                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.50                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.77                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.18                                     | 0.59  | 0.38                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.52                                     | 0.68  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.14                                     | 0.57  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.11                                     | 0.23  | 0.39                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.47                                     | 1.07  | 1.88                    |                                  |
| SLD72466        | SLD72466                     | 11/06/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.17                                     | 0.12  | 0.18                    | 0.04                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 16.90                                    | 1.22  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.31                                     | 0.48  | 0.77                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.74                                     | 0.09  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.83                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.64                                     | 0.70  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.52                                     | 0.66  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.26                                     | 0.60  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.10                                     | 0.19  | 0.33                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.61                                     | 0.57  | 0.50                    |                                  |
|                 | SLD72490                     | 11/06/02        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.13                                     | 0.11  | 0.18                    | 0.07                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.16                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.13                                    | 0.89  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.56                                     | 0.47  | 0.77                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.59                                     | 0.11  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.63                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.31                                     | 0.63  | 0.38                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.33                                     | 0.87  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.63                                     | 0.41  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.23                                     | 0.22  | 0.38                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.77                                     | 0.68  | 0.52                    |                                  |

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72467        | SLD72467                     | 11/14/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | -0.02                                    | 0.09  | 0.15                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.06  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 1.40                                     | 0.35  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.24                                    | 0.41  | 0.60                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.27                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.09                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | -0.02                                    | 0.04  | 0.43                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.99                                     | 0.63  | 0.52                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | -0.02                                    | 0.04  | 0.43                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.01                                    | 0.18  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.35                                     | 0.84  | 0.76                    |                                  |
|                 | SLD72491                     | 11/14/02        | 1.3                               | 1.8                |                                  | Actinium-227     | 0.19                                     | 0.12  | 0.20                    | 0.06                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.09                                     | 0.08  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.05                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 8.52                                     | 0.84  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.31                                    | 0.57  | 0.84                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.94                                     | 0.10  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.51                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.73                                     | 0.43  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.28                                     | 0.79  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.91                                     | 0.46  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.27                                     | 0.25  | 0.43                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.12                                     | 1.06  | 1.02                    |                                  |
|                 | SLD72512                     | 11/14/02        | 2.5                               | 3.0                |                                  | Actinium-227     | 0.07                                     | 0.17  | 0.27                    | 0.03                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.10  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.02                                    | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 17.66                                    | 1.54  | 0.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.56                                     | 0.77  | 1.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.98                                     | 0.12  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.16                                     | 0.12  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.68                                     | 0.71  | 0.36                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.41                                     | 0.64  | 0.36                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.08                                     | 0.54  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.13                                    | 0.34  | 0.55                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.14                                     | 1.31  | 1.39                    |                                  |
|                 | SLD72520                     | 11/14/02        | 4.5                               | 5.0                |                                  | Actinium-227     | 0.40                                     | 0.31  | 0.55                    | 0.07                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.04                                    | 0.22  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.03                                     | 0.06  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 14.16                                    | 2.04  | 0.66                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 2.18                                     | 2.37  | 2.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.12                                     | 0.22  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.12                                     | 0.22  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.05                                     | 0.50  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.06                                     | 0.74  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.29                                     | 0.56  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.36                                     | 0.62  | 1.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 4.05                                     | 2.46  | 3.02                    |                                  |

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72468        | SLD72468                     | 11/04/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.21                                     | 0.12  | 0.19                    | 0.16                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.07                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.93                                    | 0.87  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.18                                    | 0.50  | 0.76                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.26                                     | 0.13  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.74                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.34                                     | 0.61  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.58                                     | 0.89  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.93                                     | 0.49  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.42                                     | 0.24  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.10                                     | 0.67  | 0.54                    |                                  |
|                 | SLD72492                     | 11/04/02        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.40                                     | 0.11  | 0.18                    | 0.04                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.02                                    | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 17.07                                    | 1.17  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.30                                     | 0.41  | 0.65                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.70                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.93                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.26                                     | 0.57  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.43                                     | 0.83  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.25                                     | 0.56  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.11                                    | 0.17  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.29                                     | 0.46  | 0.44                    |                                  |
| SLD72469        | SLD72469                     | 10/08/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.09                                     | 0.07  | 0.11                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.05                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 5.90                                     | 0.49  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.29                                     | 0.29  | 0.47                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.62                                     | 0.07  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.42                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.42                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.12                                     | 2.10  | 3.48                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.42                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.19                                     | 0.14  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.61                                     | 0.28  | 0.32                    |                                  |
|                 | SLD72493                     | 10/08/02        | 1.2                               | 1.7                |                                  | Actinium-227     | 0.21                                     | 0.13  | 0.20                    | 0.14                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.72                                     | 0.88  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.86                                     | 0.55  | 0.90                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 4.43                                     | 0.17  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.01                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.01                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.40                                     | 3.86  | 6.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.01                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.39                                     | 0.25  | 0.42                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.94                                     | 0.65  | 0.61                    |                                  |

**Table C-1**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72469        | SLD72834                     | 10/08/02        | 2.3                                | 2.8                |                                  | Actinium-227     | 0.16                                     | 0.14  | 0.23                    | 0.23                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.08  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 16.40                                    | 1.38  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.18                                     | 0.66  | 1.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.42                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.89                                     | 0.09  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.89                                     | 0.09  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -1.16                                    | 6.30  | 10.82                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.89                                     | 0.09  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.26                                    | 0.27  | 0.43                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.84                                     | 0.75  | 1.34                    |                                  |
|                 | SLD72835                     | 10/08/02        | 4.8                                | 5.3                |                                  | Actinium-227     | 0.09                                     | 0.20  | 0.31                    | 0.40                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.01                                    | 0.13  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.04                                    | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 19.88                                    | 1.85  | 0.52                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.63                                    | 0.90  | 1.52                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.49                                     | 0.12  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.02                                     | 0.14  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.02                                     | 0.14  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -0.15                                    | 9.04  | 15.72                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.02                                     | 0.14  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.36                                     | 0.33  | 0.63                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.81                                     | 1.13  | 2.01                    |                                  |
| SLD72470        | SLD72470                     | 11/06/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.23                                     | 0.18  | 0.18                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.02                                    | 0.13  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.06                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 4.73                                     | 0.53  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.08                                    | 0.46  | 0.80                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.50                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.36                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.75                                     | 0.43  | 0.40                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.61                                     | 0.63  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.18                                     | 0.21  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.08                                     | 0.23  | 0.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.58                                     | 1.70  | 1.61                    |                                  |
|                 | SLD72494                     | 11/06/02        | 1                                  | 1.5                |                                  | Actinium-227     | 0.28                                     | 0.20  | 0.31                    | 0.32                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.05                                     | 0.25  | 0.39                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 13.70                                    | 1.12  | 0.42                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.13                                    | 0.84  | 1.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 5.94                                     | 0.22  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.23                                     | 0.12  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.86                                     | 0.70  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 4.45                                     | 1.21  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.22                                     | 0.54  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.25                                     | 0.39  | 0.64                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 6.07                                     | 2.34  | 2.98                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72471        | SLD72471                     | 11/06/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.07                                     | 0.08  | 0.13                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.10  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.02                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 3.26                                     | 0.40  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.32                                     | 0.43  | 0.59                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.09                                     | 0.06  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.19                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.39                                     | 0.30  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.09                                     | 0.52  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.11                                     | 0.16  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.05                                     | 0.18  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.01                                     | 0.81  | 1.24                    |                                  |
|                 | SLD72495                     | 11/06/02        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.05                                     | 0.11  | 0.17                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.03                                    | 0.14  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 16.59                                    | 1.23  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.08                                     | 0.50  | 0.77                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.45                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.54                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.73                                     | 0.41  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.89                                     | 0.44  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.64                                     | 0.37  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.05                                    | 0.23  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.20                                     | 1.31  | 1.92                    |                                  |
|                 | SLD72513                     | 11/06/02        | 3.3                               | 3.8                |                                  | Actinium-227     | 0.10                                     | 0.31  | 0.50                    | 0.28                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.14                                     | 0.55  | 0.90                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.04                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.46                                     | 1.31  | 0.75                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.33                                    | 1.33  | 2.01                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 4.18                                     | 0.25  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.84                                     | 0.17  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.98                                     | 0.48  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 5.57                                     | 1.40  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.87                                     | 0.45  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.57                                    | 0.60  | 0.96                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 5.19                                     | 4.47  | 6.34                    |                                  |
|                 | SLD72521                     | 11/06/02        | 5                                 | 5.5                |                                  | Actinium-227     | 0.20                                     | 0.09  | 0.15                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.11  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 16.46                                    | 1.12  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.05                                     | 0.42  | 0.64                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.56                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.93                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.29                                     | 0.55  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.29                                     | 0.55  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.88                                     | 0.44  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.00                                     | 0.19  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.86                                     | 0.90  | 1.59                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72472        | SLD72472                     | 10/31/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.05                                     | 0.09  | 0.15                    | 0.01                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.13                                     | 0.14  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 5.40                                     | 0.57  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.05                                     | 0.41  | 0.64                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.18                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.32                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.81                                     | 0.46  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.66                                     | 0.69  | 0.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.47                                     | 0.34  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.14                                     | 0.20  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.86                                     | 1.73  | 1.55                    |                                  |
|                 | SLD72496                     | 10/31/02        | 1                                 | 1.5                |                                  | Actinium-227     | 0.08                                     | 0.10  | 0.19                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.05                                     | 0.14  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 14.99                                    | 1.13  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.36                                     | 0.51  | 0.81                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.46                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.83                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.75                                     | 0.44  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.97                                     | 0.50  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.66                                     | 0.40  | 0.15                    |                                  |
| SLD72473        | SLD72473                     | 10/30/02        | 0                                 | 0.5                | 0.0                              | Uranium-235      | 0.19                                     | 0.23  | 0.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.55                                     | 1.44  | 1.82                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Actinium-227     | 0.09                                     | 0.07  | 0.17                    | 0.06                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.01                                    | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.04                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.39                                     | 0.78  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.38                                     | 0.40  | 0.65                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.84                                     | 0.09  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.61                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.07                                     | 0.53  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.14                                     | 0.78  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.54                                     | 0.36  | 0.28                    |                                  |
|                 | SLD72497                     | 10/30/02        | 1                                 | 1.5                |                                  | Uranium-235      | 0.17                                     | 0.18  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.27                                     | 0.55  | 0.44                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Actinium-227     | 0.53                                     | 0.10  | 0.16                    | 0.04                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 14.36                                    | 0.98  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.07                                     | 0.35  | 0.54                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.26                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.81                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.14                                     | 0.53  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.32                                     | 0.57  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.68                                     | 0.66  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.08                                     | 0.15  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.10                                     | 0.35  | 0.37                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72474        | SLD72474                     | 10/30/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.34                                     | 0.30  | 0.48                    | 0.26                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.01                                    | 0.10  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.16                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 8.89                                     | 1.38  | 0.73                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.60                                    | 1.25  | 1.87                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.38                                     | 0.21  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.64                                     | 0.14  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.95                                     | 0.84  | 0.36                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.88                                     | 1.06  | 0.36                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.94                                     | 0.55  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.55                                     | 0.54  | 0.93                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 5.01                                     | 1.73  | 1.32                    |                                  |
|                 | SLD72498                     | 10/30/02        | 0.8                               | 1.3                |                                  | Actinium-227     | 0.40                                     | 0.13  | 0.21                    | 0.05                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.08                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 14.13                                    | 1.06  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.18                                     | 0.49  | 0.77                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.98                                     | 0.10  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.81                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.11                                     | 0.51  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.42                                     | 0.79  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.84                                     | 0.43  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.02                                    | 0.21  | 0.36                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.50                                     | 0.61  | 0.51                    |                                  |
|                 | SLD72514                     | 10/30/02        | 3                                 | 3.5                |                                  | Actinium-227     | 0.38                                     | 0.11  | 0.19                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.02                                    | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 14.98                                    | 1.10  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.31                                    | 0.48  | 0.70                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.64                                     | 0.09  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.85                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.96                                     | 0.48  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.68                                     | 0.65  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.08                                     | 0.50  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.28                                     | 0.19  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.15                                     | 0.60  | 0.48                    |                                  |
|                 | SLD72522                     | 10/30/02        | 5                                 | 5.5                |                                  | Actinium-227     | 0.14                                     | 0.11  | 0.19                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.01                                    | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.02                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 17.01                                    | 1.24  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.10                                     | 0.46  | 0.72                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.33                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.83                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.67                                     | 0.68  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.81                                     | 0.71  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.98                                     | 0.50  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.34                                     | 0.25  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.04                                     | 0.46  | 0.52                    |                                  |

**Table C-1**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72475        | SLD72475                     | 10/31/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.13                                     | 0.10  | 0.14                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.05                                    | 0.11  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.51                                     | 0.37  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.27                                    | 0.36  | 0.60                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.22                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.13                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.21                                     | 0.22  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.21                                     | 0.54  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.20                                     | 0.21  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.00                                     | 0.19  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.68                                     | 0.88  | 1.60                    |                                  |
|                 | SLD72499                     | 10/31/02        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.19                                     | 0.11  | 0.17                    | 0.03                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.08                                    | 0.14  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.10                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 13.85                                    | 0.97  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.39                                     | 0.48  | 0.74                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.27                                     | 0.09  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.96                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.14                                     | 0.52  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.92                                     | 0.70  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.04                                     | 0.49  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.08                                     | 0.22  | 0.36                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.75                                     | 1.42  | 1.66                    |                                  |
| SLD72476        | SLD72476                     | 11/04/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.10                                     | 0.08  | 0.13                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.03                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 5.49                                     | 0.49  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.41                                    | 0.32  | 0.52                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.39                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.26                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.49                                     | 0.32  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.22                                     | 0.53  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.29                                     | 0.24  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.07                                     | 0.14  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.01                                     | 0.34  | 0.32                    |                                  |
|                 | SLD72500                     | 11/04/02        | 1                                 | 1.5                |                                  | Actinium-227     | 0.16                                     | 0.07  | 0.11                    | 0.03                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.51                                     | 0.31  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.32                                     | 0.30  | 0.48                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.59                                     | 0.07  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.30                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.78                                     | 0.45  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.38                                     | 0.84  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.51                                     | 0.35  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.10                                     | 0.13  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.91                                     | 0.23  | 0.30                    |                                  |



**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72477        | SLD72477                     | 12/09/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.34                                     | 0.24  | 0.41                    | 0.18                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.09                                    | 0.18  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.05                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 13.55                                    | 1.62  | 0.69                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.82                                    | 1.07  | 1.79                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.50                                     | 0.18  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.73                                     | 0.17  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.03                                     | 0.54  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.50                                     | 0.89  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.22                                     | 0.58  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.19                                     | 0.48  | 0.80                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.34                                     | 2.36  | 2.08                    |                                  |
|                 | SLD72501                     | 12/09/02        | 0.8                               | 1.3                |                                  | Actinium-227     | 0.13                                     | 0.13  | 0.21                    | 0.01                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.05                                     | 0.09  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.03                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 17.09                                    | 1.40  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.19                                     | 0.59  | 0.94                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.24                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.92                                     | 0.09  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.56                                     | 0.69  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.13                                     | 0.82  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.88                                     | 0.50  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.07                                     | 0.26  | 0.45                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.49                                     | 0.97  | 1.22                    |                                  |
|                 | SLD72515                     | 12/09/02        | 2.5                               | 3.0                |                                  | Actinium-227     | 0.17                                     | 0.16  | 0.26                    | 0.02                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.12                                     | 0.10  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.03                                    | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 17.24                                    | 1.50  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.10                                    | 0.69  | 1.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.50                                     | 0.11  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.01                                     | 0.11  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.08                                     | 0.53  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.29                                     | 0.58  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.24                                     | 0.57  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.07                                    | 0.29  | 0.48                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.71                                     | 1.21  | 1.35                    |                                  |
|                 | SLD72523                     | 12/09/02        | 5                                 | 5.5                |                                  | Actinium-227     | 0.23                                     | 0.13  | 0.22                    | 0.02                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.08  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 17.74                                    | 1.41  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.18                                     | 0.58  | 0.91                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.51                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.95                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.39                                     | 0.66  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.96                                     | 0.80  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.31                                     | 0.63  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.18                                     | 0.27  | 0.45                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.90                                     | 0.73  | 1.30                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72478        | SLD72478                     | 12/10/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.25                                     | 0.14  | 0.23                    | 0.02                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.10                                     | 0.09  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.06                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 8.19                                     | 0.88  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.38                                     | 0.62  | 1.00                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.21                                     | 0.12  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.68                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.16                                     | 0.56  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.61                                     | 0.67  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.92                                     | 0.49  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.14                                     | 0.28  | 0.44                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.60                                     | 1.19  | 1.18                    |                                  |
|                 | SLD72502                     | 12/10/02        | 1.4                               | 1.9                |                                  | Actinium-227     | 0.27                                     | 0.41  | 0.49                    | 0.16                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.11                                    | 0.20  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.04                                    | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 12.96                                    | 1.77  | 0.75                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.47                                     | 1.37  | 2.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.14                                     | 0.22  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.77                                     | 0.21  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 3.22                                     | 1.14  | 0.36                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.08                                     | 1.10  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.93                                     | 0.82  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.09                                    | 0.57  | 0.95                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.78                                     | 2.90  | 2.59                    |                                  |
|                 | SLD72516                     | 12/10/02        | 3.3                               | 3.8                |                                  | Actinium-227     | 0.11                                     | 0.16  | 0.25                    | 0.06                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.09  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.03                                     | 0.02  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 13.30                                    | 1.25  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.64                                    | 0.70  | 1.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.27                                     | 0.13  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.94                                     | 0.12  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.69                                     | 0.71  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.84                                     | 0.96  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.09                                     | 0.55  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.13                                     | 0.31  | 0.52                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.54                                     | 0.86  | 1.55                    |                                  |
|                 | SLD72524                     | 12/10/02        | 4.5                               | 5.0                |                                  | Actinium-227     | 0.25                                     | 0.14  | 0.24                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.07                                     | 0.09  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 16.38                                    | 1.38  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.59                                     | 0.60  | 0.99                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.49                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.96                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.41                                     | 0.55  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.59                                     | 0.58  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.80                                     | 0.39  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.12                                    | 0.28  | 0.45                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.10                                     | 1.07  | 1.23                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72479        | SLD72479                     | 12/10/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.09                                     | 0.10  | 0.17                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.01                                    | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.13                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 4.99                                     | 0.69  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.18                                     | 0.46  | 0.72                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.34                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.38                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.52                                     | 0.35  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.38                                     | 0.59  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.42                                     | 0.31  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.17                                     | 0.21  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.27                                     | 0.51  | 0.46                    |                                  |
|                 | SLD72503                     | 12/10/02        | 1                                 | 1.5                |                                  | Actinium-227     | 0.41                                     | 0.32  | 0.53                    | 0.11                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.05                                     | 0.10  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.06                                     | 0.05  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 6.88                                     | 1.82  | 0.97                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -1.21                                    | 1.42  | 2.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.58                                     | 0.24  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.76                                     | 0.18  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.43                                     | 0.63  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.63                                     | 0.89  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.66                                     | 0.40  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.03                                    | 0.60  | 0.98                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 4.18                                     | 1.53  | 1.42                    |                                  |
| SLD72481        | SLD72481                     | 11/27/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.08                                     | 0.20  | 0.32                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.11  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.05                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 5.38                                     | 0.99  | 0.53                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.14                                    | 0.87  | 1.54                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.16                                     | 0.13  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.51                                     | 0.12  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.51                                     | 0.36  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.59                                     | 0.64  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.69                                     | 0.40  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.16                                     | 0.37  | 0.62                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.66                                     | 1.07  | 1.93                    |                                  |
|                 | SLD72505                     | 11/27/02        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.05                                     | 0.09  | 0.14                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.05  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.47                                     | 0.37  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.43                                     | 0.48  | 0.63                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.19                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.19                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.60                                     | 0.38  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.85                                     | 0.69  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.47                                     | 0.32  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.01                                    | 0.18  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.81                                     | 0.57  | 0.73                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72481        | SLD72517                     | 11/27/02        | 3.5                                | 4.0                |                                  | Actinium-227     | 0.06                                     | 0.07  | 0.14                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.05  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 12.77                                    | 1.02  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.01                                     | 0.38  | 0.60                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.56                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.28                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.36                                     | 0.31  | 0.41                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.01                                     | 0.49  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.10                                     | 0.15  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.01                                    | 0.16  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.33                                     | 0.45  | 0.79                    |                                  |
|                 | SLD72525                     | 11/27/02        | 5.3                                | 5.8                |                                  | Actinium-227     | 2.64                                     | 0.23  | 0.33                    | 0.05                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.15                                    | 0.17  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 16.70                                    | 1.19  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 1.35                                     | 0.59  | 0.94                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.68                                     | 0.09  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.98                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 2.52                                     | 0.89  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.17                                     | 0.81  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.59                                     | 0.67  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.10                                     | 0.26  | 0.44                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.58                                     | 1.32  | 2.20                    |                                  |
| SLD72482        | SLD72482                     | 11/04/02        | 0                                  | 1.0                | 0.0                              | Actinium-227     | 0.07                                     | 0.17  | 0.27                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.03  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 2.24                                     | 0.71  | 0.54                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.59                                     | 0.69  | 1.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.18                                     | 0.11  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.18                                     | 0.13  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.67                                     | 0.62  | 0.72                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.41                                     | 0.90  | 0.61                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.21                                     | 0.35  | 0.60                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.02                                     | 0.33  | 0.55                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.41                                     | 0.56  | 1.00                    |                                  |
|                 | SLD72506                     | 11/04/02        | 1.2                                | 1.7                |                                  | Actinium-227     | 0.24                                     | 0.11  | 0.18                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.06                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 5.62                                     | 0.60  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.04                                     | 0.47  | 0.73                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.98                                     | 0.09  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.42                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.45                                     | 0.31  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.83                                     | 0.65  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.61                                     | 0.35  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.03                                     | 0.19  | 0.33                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.54                                     | 0.41  | 0.42                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72483        | SLD72483                     | 11/04/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.11                                     | 0.09  | 0.14                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 8.98                                     | 0.79  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.10                                     | 0.40  | 0.63                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.38                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.23                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.83                                     | 0.48  | 0.39                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.68                                     | 0.69  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.40                                     | 0.31  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.13                                    | 0.16  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.89                                     | 0.40  | 0.35                    |                                  |
|                 | SLD72507                     | 11/04/02        | 1.4                               | 1.9                |                                  | Actinium-227     | 0.05                                     | 0.08  | 0.12                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.02                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 6.32                                     | 0.60  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.03                                     | 0.33  | 0.52                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.05                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.23                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.92                                     | 0.53  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.49                                     | 0.69  | 0.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.38                                     | 0.33  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.21                                     | 0.13  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.92                                     | 0.37  | 0.30                    |                                  |
| SLD72484        | SLD72484                     | 12/09/02        | 0                                 | 0.7                | 0.0                              | Actinium-227     | 0.09                                     | 0.08  | 0.14                    | 0.01                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 4.38                                     | 0.52  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.29                                    | 0.36  | 0.60                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.88                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.35                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.92                                     | 0.51  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.03                                     | 0.54  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.14                                     | 0.57  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.14                                     | 0.17  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.91                                     | 0.67  | 0.42                    |                                  |
|                 | SLD72518                     | 12/09/02        | 3                                 | 3.5                |                                  | Actinium-227     | 0.19                                     | 0.12  | 0.22                    | 0.09                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.02                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 13.22                                    | 1.18  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.45                                     | 0.62  | 0.98                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.61                                     | 0.12  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.82                                     | 0.09  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.46                                     | 0.63  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.74                                     | 0.90  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.36                                     | 0.59  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.09                                     | 0.28  | 0.46                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.15                                     | 0.73  | 0.68                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72484        | SLD72526                     | 12/09/02        | 5.5                               | 6.0                |                                  | Actinium-227     | 0.12                                     | 0.06  | 0.18                    | 0.01                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 17.11                                    | 1.29  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.45                                     | 0.50  | 0.79                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.63                                     | 0.09  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.87                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.18                                     | 0.52  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.76                                     | 0.65  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.17                                     | 0.51  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.06                                     | 0.21  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.22                                     | 0.48  | 0.56                    |                                  |
| SLD72485        | SLD72485                     | 11/26/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.11                                     | 0.07  | 0.16                    | 0.01                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.05                                    | 0.07  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.83                                     | 0.50  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.34                                     | 0.47  | 0.79                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.09                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.78                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.32                                     | 0.26  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.24                                     | 0.54  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.24                                     | 0.24  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.06                                    | 0.21  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.82                                     | 0.79  | 0.84                    |                                  |
|                 | SLD72509                     | 11/26/02        | 0.5                               | 1.0                |                                  | Actinium-227     | 0.08                                     | 0.09  | 0.15                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.06                                     | 0.06  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.04                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 3.31                                     | 0.46  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.02                                     | 0.42  | 0.75                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.20                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.38                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.78                                     | 0.46  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.77                                     | 0.72  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.42                                     | 0.32  | 0.16                    |                                  |
| SLD72486        | SLD72486                     | 11/26/02        | 0                                 | 0.5                | 0.0                              | Uranium-235      | 0.15                                     | 0.18  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.86                                     | 0.73  | 0.83                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Actinium-227     | 0.15                                     | 0.22  | 0.37                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.06  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.02                                    | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.61                                     | 1.01  | 0.83                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.63                                    | 1.05  | 1.76                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.22                                     | 0.15  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.26                                     | 0.18  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.72                                     | 0.44  | 0.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.50                                     | 0.63  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.57                                     | 0.37  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.04                                    | 0.44  | 0.74                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.22                                     | 0.89  | 0.92                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72486        | SLD72510                     | 11/26/02        | 1.1                                | 1.6                |                                  | Actinium-227     | 0.09                                     | 0.12  | 0.19                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 12.91                                    | 1.09  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.27                                     | 0.51  | 0.80                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.75                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.72                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.79                                     | 0.41  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.55                                     | 0.58  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.63                                     | 0.35  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.13                                     | 0.23  | 0.38                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.16                                     | 0.58  | 0.56                    |                                  |
| SLD72504        | SLD72504                     | 12/10/02        | 0                                  | 1.5                | 0.0                              | Actinium-227     | 0.26                                     | 0.14  | 0.22                    | 0.38                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.04                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.19                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 10.27                                    | 0.88  | 0.33                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.42                                     | 0.61  | 0.97                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 4.10                                     | 0.16  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.14                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.19                                     | 0.57  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.62                                     | 0.91  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.23                                     | 0.58  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.35                                     | 0.42  | 0.47                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 5.55                                     | 0.88  | 0.66                    |                                  |
|                 | SLD72480                     | 12/10/02        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.38                                     | 0.31  | 0.48                    | 0.42                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.04                                     | 0.10  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.09                                    | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 14.14                                    | 1.56  | 0.77                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.42                                    | 1.28  | 1.93                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 5.91                                     | 0.28  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.40                                     | 0.20  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 2.83                                     | 0.94  | 0.47                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 6.37                                     | 1.60  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.22                                     | 0.56  | 0.15                    |                                  |
| SLD72527        | SLD72527                     | 10/09/02        | 0                                  | 0.5                | 0.0                              | Uranium-235      | -0.20                                    | 0.52  | 0.87                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 6.27                                     | 1.58  | 1.39                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Actinium-227     | 0.06                                     | 0.07  | 0.10                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 7.84                                     | 0.63  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.15                                     | 0.28  | 0.45                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.08                                     | 0.06  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.30                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.30                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.82                                     | 1.91  | 3.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.30                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.04                                     | 0.13  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.64                                     | 0.29  | 0.32                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72527        | SLD72533                     | 10/09/02        | 1.4                               | 1.9                |                                  | Actinium-227     | 0.00                                     | 0.07  | 0.10                    | 0.01                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.13                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 6.13                                     | 0.52  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.01                                     | 0.31  | 0.47                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.40                                     | 0.06  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.31                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.31                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.00                                     | 2.26  | 3.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.31                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.06                                     | 0.13  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.14                                     | 0.43  | 0.31                    |                                  |
|                 | SLD72539                     | 10/09/02        | 3.1                               | 3.6                |                                  | Actinium-227     | 0.13                                     | 0.09  | 0.15                    | 0.03                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.03                                    | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 16.85                                    | 1.17  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.05                                    | 0.41  | 0.62                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.65                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.98                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.98                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -0.63                                    | 2.92  | 4.66                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.98                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.05                                     | 0.18  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.95                                     | 0.45  | 0.47                    |                                  |
|                 | SLD72541                     | 10/09/02        | 5.2                               | 5.7                |                                  | Actinium-227     | 0.03                                     | 0.09  | 0.14                    | 0.01                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 16.52                                    | 1.12  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.15                                     | 0.42  | 0.64                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.64                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.91                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.91                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -1.06                                    | 2.89  | 4.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.91                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.11                                     | 0.17  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.91                                     | 0.44  | 0.43                    |                                  |
|                 | SLD72842                     | 10/09/02        | 7.2                               | 7.9                |                                  | Actinium-227     | 0.09                                     | 0.11  | 0.16                    | 0.04                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 18.19                                    | 1.27  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.28                                     | 0.48  | 0.76                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.53                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.95                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.95                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -0.80                                    | 3.13  | 5.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.95                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.14                                    | 0.20  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.09                                     | 0.51  | 0.51                    |                                  |



**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72527        | SLD72843                     | 10/09/02        | 12.4                               | 12.9               |                                  | Actinium-227     | 0.05                                     | 0.09  | 0.14                    | 0.02                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.02                                    | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 17.32                                    | 1.16  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.22                                     | 0.37  | 0.58                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.42                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.83                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.83                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.52                                     | 2.71  | 4.38                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.83                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.03                                    | 0.17  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.15                                     | 0.42  | 0.42                    |                                  |
|                 | SLD72841                     | 10/09/02        | 19.1                               | 19.6               |                                  | Actinium-227     | 0.20                                     | 0.13  | 0.22                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.09  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 15.83                                    | 1.28  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.27                                    | 0.61  | 0.90                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.60                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.01                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.95                                     | 0.45  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.36                                     | 0.53  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.25                                     | 0.50  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.07                                    | 0.27  | 0.43                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.22                                     | 1.03  | 1.14                    |                                  |
| SLD72529        | SLD72529                     | 10/30/02        | 0                                  | 0.9                | 0.0                              | Actinium-227     | 0.21                                     | 0.21  | 0.35                    | 0.10                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.07  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.07                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 10.14                                    | 1.28  | 0.49                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.11                                     | 1.06  | 1.67                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.61                                     | 0.14  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.52                                     | 0.13  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.02                                     | 0.53  | 0.39                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.29                                     | 0.83  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.16                                     | 0.56  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.05                                    | 0.39  | 0.67                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.27                                     | 1.32  | 1.02                    |                                  |
|                 | SLD72535                     | 10/30/02        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.16                                     | 0.09  | 0.14                    | 0.04                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.03                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 13.24                                    | 0.96  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.01                                     | 0.37  | 0.57                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.58                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.72                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.80                                     | 0.71  | 0.34                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.50                                     | 0.86  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.91                                     | 0.48  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.11                                     | 0.16  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.21                                     | 0.42  | 0.40                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72529        | SLD72540                     | 10/30/02        | 2.5                                | 3.0                |                                  | Actinium-227     | 0.05                                     | 0.07  | 0.10                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 7.85                                     | 0.63  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.05                                    | 0.32  | 0.48                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.18                                     | 0.06  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.44                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.86                                     | 0.52  | 0.41                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.06                                     | 0.58  | 0.41                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.75                                     | 0.47  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.02                                     | 0.13  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.75                                     | 0.35  | 0.34                    |                                  |
|                 | SLD72542                     | 10/30/02        | 5.3                                | 5.8                |                                  | Actinium-227     | 0.07                                     | 0.09  | 0.13                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.02                                    | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.47                                    | 0.85  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.43                                     | 0.37  | 0.61                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.25                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.61                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.90                                     | 0.45  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.14                                     | 0.52  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.60                                     | 0.36  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.05                                     | 0.15  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.07                                     | 0.36  | 0.39                    |                                  |
| SLD72530        | SLD72530                     | 10/29/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.15                                     | 0.18  | 0.30                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.02                                    | 0.05  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.03                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 2.18                                     | 0.62  | 0.47                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.48                                    | 0.80  | 1.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.55                                     | 0.11  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.25                                     | 0.10  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.51                                     | 0.39  | 0.41                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.79                                     | 0.47  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.42                                     | 0.33  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.23                                     | 0.31  | 0.58                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.46                                     | 0.60  | 1.13                    |                                  |
|                 | SLD72536                     | 10/29/02        | 1.1                                | 1.6                |                                  | Actinium-227     | 0.20                                     | 0.09  | 0.14                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.07                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.05                                    | 0.83  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.26                                     | 0.34  | 0.56                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.31                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.57                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.47                                     | 0.65  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.84                                     | 0.48  | 0.40                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.83                                     | 0.46  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.17                                     | 0.16  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.82                                     | 0.45  | 0.37                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of Ratios Value <sup>5</sup> |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72531        | SLD72531                     | 11/06/02        | 0.5                               | 1.0                | 0.5                              | Actinium-227     | 0.13                                     | 0.18  | 0.30                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.05  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.03  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.44                                     | 0.74  | 0.53                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.39                                    | 1.04  | 1.58                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.67                                     | 0.11  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.27                                     | 0.16  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.55                                     | 0.38  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.20                                     | 0.58  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.36                                     | 0.30  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.01                                    | 0.35  | 0.61                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.42                                     | 0.60  | 1.13                    |                                  |
|                 | SLD72537                     | 11/06/02        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.22                                     | 0.22  | 0.37                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.04                                    | 0.06  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 1.03                                     | 0.88  | 0.64                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.47                                     | 1.03  | 1.71                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.89                                     | 0.13  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.29                                     | 0.13  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.55                                     | 0.36  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.65                                     | 0.39  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.32                                     | 0.27  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.07                                     | 0.38  | 0.67                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.56                                     | 0.69  | 1.29                    |                                  |
| SLD72532        | SLD72532                     | 11/21/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.10                                     | 0.03  | 0.14                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.22                                     | 0.35  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.30                                    | 0.35  | 0.59                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.22                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.19                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.21                                     | 0.23  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.93                                     | 0.48  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.22                                     | 0.22  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.01                                     | 0.18  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.16                                     | 0.78  | 0.70                    |                                  |
|                 | SLD72538                     | 11/21/02        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.12                                     | 0.18  | 0.29                    | 0.06                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.04                                    | 0.13  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.13                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 5.40                                     | 0.95  | 0.55                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.81                                     | 0.77  | 1.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.03                                     | 0.15  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.49                                     | 0.09  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.71                                     | 0.42  | 0.36                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.96                                     | 0.72  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.48                                     | 0.33  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.39                                     | 0.47  | 0.64                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 4.30                                     | 1.72  | 1.57                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72534        | SLD72534                     | 10/30/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.15                                     | 0.29  | 0.45                    | 0.86                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.09  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.62                                     | 0.11  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 10.67                                    | 1.31  | 0.59                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -1.10                                    | 1.33  | 1.93                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.74                                     | 0.19  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.83                                     | 0.16  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.64                                     | 0.69  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 5.72                                     | 1.53  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.71                                     | 0.43  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.09                                     | 0.48  | 0.83                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 6.49                                     | 1.76  | 1.28                    |                                  |
|                 | SLD72528                     | 10/30/02        | 1                                  | 1.5                |                                  | Actinium-227     | 0.27                                     | 0.30  | 0.47                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.09  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.04                                    | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 13.58                                    | 1.69  | 0.68                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.27                                     | 1.23  | 1.97                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.70                                     | 0.20  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.90                                     | 0.17  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.18                                     | 0.52  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.41                                     | 0.58  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.59                                     | 0.35  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.07                                    | 0.50  | 0.86                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.11                                     | 1.47  | 1.37                    |                                  |
| SLD72792        | SLD72792                     | 10/01/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.18                                     | 0.13  | 0.20                    | 0.62                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.03                                    | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 19.82                                    | 1.40  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.27                                     | 0.54  | 0.85                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.68                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.38                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.38                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -0.12                                    | 4.16  | 6.68                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.38                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.83                                     | 0.24  | 0.39                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 14.04                                    | 1.30  | 0.69                    |                                  |
| SLD72806        | SLD72806                     | 01/13/03        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.19                                     | 0.09  | 0.15                    | 0.02                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.05                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 8.35                                     | 0.72  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.27                                     | 0.36  | 0.58                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.43                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.47                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.47                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.81                                     | 2.58  | 4.00                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.47                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.09                                     | 0.16  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.78                                     | 0.55  | 0.39                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup><br>(pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of Ratios Value <sup>5</sup> |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|---------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72806        | SLD72807                     | 01/13/03        | 0.5                               | 1.0                |                                  | Actinium-227     | 0.13                                        | 0.08  | 0.13                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                        | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.03                                        | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 7.39                                        | 0.65  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.10                                        | 0.35  | 0.53                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.34                                        | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.50                                        | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.50                                        | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -1.46                                       | 2.43  | 3.91                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.50                                        | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.05                                        | 0.16  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.45                                        | 0.39  | 0.40                    |                                  |
|                 | SLD72808                     | 01/13/03        | 2.5                               | 3.0                |                                  | Actinium-227     | 0.13                                        | 0.06  | 0.16                    | 0.03                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                        | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                        | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 15.08                                       | 1.06  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.21                                        | 0.38  | 0.60                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.41                                        | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.79                                        | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.79                                        | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.99                                        | 2.63  | 4.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.79                                        | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.06                                        | 0.16  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.95                                        | 0.51  | 0.42                    |                                  |
|                 | SLD72809                     | 01/13/03        | 5                                 | 5.5                |                                  | Actinium-227     | 0.21                                        | 0.11  | 0.18                    | 0.05                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.05                                        | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                        | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 16.22                                       | 1.22  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.08                                        | 0.48  | 0.73                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.44                                        | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.92                                        | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.92                                        | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.08                                        | 3.29  | 5.39                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.92                                        | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.22                                        | 0.27  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.18                                        | 0.57  | 0.56                    |                                  |
|                 | SLD72810                     | 01/13/03        | 14.4                              | 14.9               |                                  | Actinium-227     | 0.50                                        | 0.12  | 0.20                    | 0.03                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                        | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                       | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 19.52                                       | 1.35  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.08                                        | 0.44  | 0.68                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.47                                        | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.97                                        | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.97                                        | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -0.77                                       | 2.88  | 4.66                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.97                                        | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.03                                        | 0.18  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.21                                        | 0.44  | 0.47                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72813        | SLD72813                     | 10/07/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.03                                     | 0.05  | 0.08                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.01                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 0.98                                     | 0.17  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.00                                     | 0.21  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.83                                     | 0.04  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.19                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.19                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.40                                     | 1.26  | 2.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.19                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.10                                     | 0.10  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.59                                     | 0.20  | 0.20                    |                                  |
|                 | SLD72814                     | 10/07/02        | 1.2                               | 1.7                |                                  | Actinium-227     | 0.06                                     | 0.04  | 0.09                    | 0.05                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.01                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 7.48                                     | 0.54  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.21                                     | 0.25  | 0.39                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.92                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.44                                     | 0.04  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.44                                     | 0.04  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.68                                     | 2.43  | 2.49                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.44                                     | 0.04  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.08                                    | 0.11  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.47                                     | 0.23  | 0.25                    |                                  |
|                 | SLD72815                     | 10/07/02        | 2.7                               | 3.2                |                                  | Actinium-227     | 0.16                                     | 0.12  | 0.19                    | 0.06                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.03                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 16.07                                    | 1.24  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.65                                     | 0.54  | 0.88                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.87                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.96                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.96                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.07                                     | 3.49  | 5.75                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.96                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.11                                     | 0.22  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.33                                     | 0.63  | 0.58                    |                                  |
|                 | SLD72816                     | 10/07/02        | 5.5                               | 6.0                |                                  | Actinium-227     | 0.12                                     | 0.08  | 0.15                    | 0.05                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 17.57                                    | 1.22  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.05                                     | 0.48  | 0.74                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.80                                     | 0.09  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.08                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.08                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.42                                     | 3.49  | 5.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.08                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.19                                     | 0.20  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.30                                     | 0.57  | 0.51                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72820        | SLD72820                     | 10/08/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.02                                     | 0.05  | 0.08                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 2.41                                     | 0.29  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.07                                     | 0.25  | 0.40                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.74                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.15                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.15                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -2.15                                    | 1.62  | 2.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.15                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.14                                     | 0.16  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.37                                     | 0.24  | 0.23                    |                                  |
|                 | SLD72821                     | 10/08/02        | 0.8                                | 1.3                |                                  | Actinium-227     | 0.02                                     | 0.09  | 0.14                    | 0.05                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.02                                    | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.06                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 10.99                                    | 0.86  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.14                                     | 0.42  | 0.66                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.39                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.55                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.55                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -1.65                                    | 2.80  | 4.44                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.55                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.24                                     | 0.17  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.90                                     | 0.50  | 0.46                    |                                  |
|                 | SLD72822                     | 10/08/02        | 3.5                                | 4.0                |                                  | Actinium-227     | 0.12                                     | 0.11  | 0.16                    | 0.05                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.01                                    | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 12.78                                    | 0.96  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.24                                     | 0.47  | 0.73                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.37                                     | 0.10  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.79                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.79                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -0.10                                    | 3.41  | 5.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.79                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.03                                    | 0.20  | 0.33                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.07                                     | 0.57  | 0.51                    |                                  |
|                 | SLD72823                     | 10/08/02        | 5.2                                | 5.7                |                                  | Actinium-227     | 0.00                                     | 0.09  | 0.14                    | 0.02                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.01                                    | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 18.17                                    | 1.23  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.16                                     | 0.40  | 0.62                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.47                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.87                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.87                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.60                                     | 3.01  | 4.50                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.87                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.17                                     | 0.17  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.08                                     | 0.48  | 0.44                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72827        | SLD72827                     | 10/10/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.13                                     | 0.29  | 0.43                    | 1.17                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.10  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 13.06                                    | 1.46  | 0.71                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.73                                     | 1.32  | 2.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 6.28                                     | 0.29  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.18                                     | 0.16  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.18                                     | 0.16  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 10.27                                    | 9.37  | 14.58                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.18                                     | 0.16  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.72                                     | 0.53  | 0.95                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 4.19                                     | 1.79  | 1.34                    |                                  |
|                 | SLD72828                     | 10/10/02        | 1                                  | 1.5                |                                  | Actinium-227     | 0.31                                     | 0.28  | 0.44                    | 0.45                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.05                                    | 0.10  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.88                                    | 1.44  | 0.75                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 1.36                                     | 1.29  | 2.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 7.95                                     | 0.33  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.27                                     | 0.16  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.27                                     | 0.16  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 8.50                                     | 9.39  | 14.37                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.27                                     | 0.16  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.70                                     | 0.53  | 0.93                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 5.19                                     | 1.64  | 1.37                    |                                  |
|                 | SLD72829                     | 10/10/02        | 3.2                                | 3.7                |                                  | Actinium-227     | 0.45                                     | 0.33  | 0.55                    | 0.63                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.33                                     | 0.23  | 0.39                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.02                                    | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 13.48                                    | 1.75  | 0.90                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.52                                    | 1.54  | 2.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 8.70                                     | 0.38  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.38                                     | 0.19  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.47                                     | 0.75  | 0.46                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 9.24                                     | 2.45  | 0.39                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.23                                     | 0.66  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.89                                     | 0.84  | 1.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 7.16                                     | 2.82  | 3.09                    |                                  |
|                 | SLD72830                     | 10/10/02        | 5.1                                | 5.6                |                                  | Actinium-227     | 0.48                                     | 0.25  | 0.43                    | 0.17                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.11                                    | 0.17  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.02                                    | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.20                                    | 1.46  | 0.68                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.60                                     | 1.13  | 1.82                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.54                                     | 0.21  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.51                                     | 0.17  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 3.40                                     | 1.07  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 3.42                                     | 1.06  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.93                                     | 0.74  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.46                                     | 0.49  | 0.85                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.38                                     | 1.99  | 2.22                    |                                  |



**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of Ratios Value <sup>5</sup> |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72827        | SLD72831                     | 10/10/02        | 16                                 | 16.5               |                                  | Actinium-227     | 0.15                                     | 0.13  | 0.21                    | 0.03                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.02                                    | 0.08  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.02                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 16.42                                    | 1.31  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.18                                     | 0.59  | 0.92                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.56                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.97                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.49                                     | 0.62  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.85                                     | 0.69  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.52                                     | 0.61  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.16                                     | 0.26  | 0.44                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.83                                     | 0.81  | 1.14                    |                                  |
| SLD72939        | SLD72939                     | 02/12/03        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.36                                     | 0.10  | 0.17                    | 0.02                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.06                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 4.28                                     | 0.49  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.24                                     | 0.37  | 0.59                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.95                                     | 0.09  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.28                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.28                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.48                                     | 2.42  | 4.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.28                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.18                                     | 0.16  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.46                                     | 0.39  | 0.39                    |                                  |
|                 | SLD72940                     | 02/12/03        | 1                                  | 1.5                |                                  | Actinium-227     | 0.44                                     | 0.23  | 0.58                    | 0.43                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.07                                     | 0.11  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.06                                     | 0.05  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.94                                    | 1.40  | 0.71                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.21                                    | 1.25  | 2.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 7.31                                     | 0.31  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.11                                     | 0.20  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.11                                     | 0.20  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 5.45                                     | 8.85  | 14.89                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.11                                     | 0.20  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.28                                     | 0.57  | 0.98                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.99                                     | 1.76  | 1.52                    |                                  |
|                 | SLD72941                     | 02/12/03        | 2.5                                | 3.0                |                                  | Actinium-227     | 0.72                                     | 0.25  | 0.38                    | 0.92                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.08                                     | 0.10  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.03                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.42                                    | 1.49  | 0.71                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.36                                     | 1.33  | 2.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 14.40                                    | 0.48  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.21                                     | 0.18  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.21                                     | 0.18  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 12.00                                    | 11.21 | 13.83                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.21                                     | 0.18  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.44                                     | 0.56  | 0.95                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 7.74                                     | 1.66  | 1.46                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72939        | SLD72942                     | 02/12/03        | 4.5                                | 5.0                |                                  | Actinium-227     | 0.80                                     | 0.33  | 0.56                    | 0.43                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.07                                     | 0.09  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.03                                    | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 10.42                                    | 1.45  | 0.79                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 6.43                                     | 3.20  | 2.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 4.51                                     | 0.27  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.83                                     | 0.18  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.83                                     | 0.18  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.60                                     | 9.57  | 14.90                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.83                                     | 0.18  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.03                                     | 0.56  | 0.95                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 4.60                                     | 1.28  | 1.40                    |                                  |
| SLD72943        | SLD72943                     | 02/06/03        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 2.31                                     | 0.15  | 0.19                    | 2.26                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.19                                     | 0.09  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.05                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 5.82                                     | 0.60  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 2.75                                     | 0.69  | 0.86                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 4.26                                     | 0.16  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.51                                     | 0.07  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.51                                     | 0.07  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 7.21                                     | 6.92  | 11.79                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.51                                     | 0.07  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 3.48                                     | 0.35  | 0.53                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 75.08                                    | 4.81  | 1.15                    |                                  |
|                 | SLD72944                     | 02/06/03        | 0.5                                | 1.0                |                                  | Actinium-227     | 0.21                                     | 0.17  | 0.27                    | 0.59                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.08                                     | 0.03  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.73                                    | 1.04  | 0.38                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.47                                     | 0.74  | 1.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 4.44                                     | 0.18  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.10                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.10                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.56                                     | 5.89  | 9.62                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.10                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 1.07                                     | 0.33  | 0.56                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 20.79                                    | 1.82  | 0.95                    |                                  |
|                 | SLD72945                     | 02/06/03        | 2.5                                | 3.0                |                                  | Actinium-227     | 0.45                                     | 0.32  | 0.54                    | 0.07                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.11  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.05  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 21.54                                    | 2.45  | 1.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.67                                    | 1.49  | 2.51                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.02                                     | 0.21  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.39                                     | 0.23  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.50                                     | 0.64  | 0.38                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.47                                     | 0.84  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.59                                     | 0.66  | 0.34                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.12                                     | 0.63  | 1.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.59                                     | 1.37  | 1.65                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of Ratios Value <sup>5</sup> |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72943        | SLD72946                     | 02/06/03        | 5                                  | 5.8                |                                  | Actinium-227     | 0.26                                     | 0.12  | 0.20                    | 0.09                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.03                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.02                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 18.76                                    | 1.37  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.34                                     | 0.48  | 0.84                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.46                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.19                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.19                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -0.46                                    | 3.96  | 6.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.19                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.10                                     | 0.23  | 0.39                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.43                                     | 0.62  | 0.61                    |                                  |
| SLD72947        | SLD72947                     | 02/11/03        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.51                                     | 0.10  | 0.15                    | 0.57                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.07                                     | 0.06  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.04                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 4.69                                     | 0.58  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.71                                     | 0.68  | 0.84                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.10                                     | 0.10  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.39                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.70                                     | 0.39  | 0.37                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.53                                     | 0.76  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.31                                     | 0.24  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 1.34                                     | 0.25  | 0.37                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 24.22                                    | 1.99  | 0.76                    |                                  |
|                 | SLD72948                     | 02/11/03        | 1                                  | 1.5                |                                  | Actinium-227     | 0.64                                     | 0.26  | 0.42                    | 1.71                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.09                                     | 0.07  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 10.91                                    | 1.29  | 0.54                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.07                                     | 1.04  | 1.61                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 4.25                                     | 0.22  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.12                                     | 0.15  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.12                                     | 0.15  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 6.37                                     | 9.65  | 15.94                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.12                                     | 0.15  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 3.33                                     | 0.68  | 0.81                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 66.13                                    | 5.17  | 1.53                    |                                  |
|                 | SLD72949                     | 02/11/03        | 3                                  | 3.5                |                                  | Actinium-227     | 1.00                                     | 0.29  | 0.51                    | 0.31                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.01                                    | 0.09  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 19.44                                    | 2.02  | 0.62                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.09                                    | 1.60  | 1.81                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.75                                     | 0.16  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.25                                     | 0.18  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.25                                     | 0.18  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.20                                     | 7.44  | 12.38                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.25                                     | 0.18  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.25                                     | 0.46  | 0.81                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.94                                     | 1.48  | 1.23                    |                                  |

Table C-1  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72947        | SLD72950                     | 02/11/03        | 5                                 | 5.5                |                                  | Actinium-227     | 0.72                                     | 0.30  | 0.50                    | 0.29                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.08  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.02                                    | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 19.73                                    | 1.94  | 0.61                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -1.41                                    | 1.26  | 1.78                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.76                                     | 0.16  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.14                                     | 0.18  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.14                                     | 0.18  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -4.24                                    | 7.58  | 12.21                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.14                                     | 0.18  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.29                                    | 0.44  | 0.72                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.18                                     | 0.86  | 1.56                    |                                  |
| SLD72951        | SLD72951                     | 02/05/03        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.14                                     | 0.11  | 0.17                    | 0.16                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.11                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 4.69                                     | 0.54  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.42                                     | 0.45  | 0.73                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.66                                     | 0.11  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.36                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.36                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.99                                     | 3.18  | 4.92                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.36                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.24                                     | 0.19  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 4.01                                     | 0.52  | 0.45                    |                                  |
|                 | SLD72952                     | 02/05/03        | 1                                 | 1.5                |                                  | Actinium-227     | 0.69                                     | 0.46  | 0.48                    | 1.71                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.05                                     | 0.15  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.03                                    | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 12.84                                    | 1.41  | 0.64                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.19                                    | 1.31  | 2.01                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.64                                     | 0.18  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.07                                     | 0.16  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.21                                     | 0.60  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.79                                     | 1.17  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.18                                     | 0.59  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 3.96                                     | 0.60  | 0.97                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 80.22                                    | 6.38  | 2.01                    |                                  |
|                 | SLD72953                     | 02/05/03        | 2                                 | 2.5                |                                  | Actinium-227     | 1.04                                     | 0.25  | 0.37                    | 0.95                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.08                                     | 0.12  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.08                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 11.50                                    | 1.41  | 0.65                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.92                                     | 1.27  | 2.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.68                                     | 0.22  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.02                                     | 0.16  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.98                                     | 0.51  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 4.52                                     | 1.24  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.34                                     | 0.59  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 1.73                                     | 0.66  | 0.94                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 39.32                                    | 3.83  | 1.67                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of Ratios Value <sup>5</sup> |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72951        | SLD72954                     | 02/05/03        | 4                                  | 4.5                |                                  | Actinium-227     | 0.37                                     | 0.09  | 0.14                    | 0.51                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.04                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.84                                    | 0.89  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.28                                     | 0.49  | 0.77                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.51                                     | 0.10  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.95                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.95                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.43                                     | 4.00  | 6.56                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.95                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 1.00                                     | 0.24  | 0.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 22.45                                    | 1.85  | 0.65                    |                                  |
| SLD72955        | SLD72955                     | 03/04/03        | 0                                  | 0.5                |                                  | Actinium-227     | 0.12                                     | 0.09  | 0.13                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.07                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 5.74                                     | 0.54  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.02                                     | 0.37  | 0.57                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.67                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.41                                     | 0.05  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.59                                     | 0.34  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.93                                     | 0.42  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.33                                     | 0.24  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.21                                     | 0.26  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.40                                     | 0.41  | 0.38                    |                                  |
|                 | SLD72956                     | 03/04/03        | 1                                  | 1.5                |                                  | Actinium-227     | 0.38                                     | 0.32  | 0.50                    | 0.34                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.07                                     | 0.12  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.04  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 15.27                                    | 1.78  | 0.66                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.51                                    | 1.36  | 2.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.35                                     | 0.21  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.38                                     | 0.18  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.55                                     | 0.61  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.68                                     | 0.83  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.12                                     | 0.49  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 1.40                                     | 0.58  | 0.95                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 14.48                                    | 2.50  | 1.55                    |                                  |
|                 | SLD72957                     | 03/04/03        | 2.5                                | 3.0                |                                  | Actinium-227     | 0.08                                     | 0.13  | 0.19                    | 0.11                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.01                                    | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.02                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 20.82                                    | 1.49  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.02                                    | 0.52  | 0.81                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.53                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.37                                     | 0.10  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.61                                     | 0.67  | 0.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.67                                     | 0.88  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.79                                     | 0.69  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.03                                     | 0.22  | 0.37                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.16                                     | 0.70  | 0.59                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72955        | SLD72958                     | 03/04/03        | 4.5                               | 5.0                |                                  | Actinium-227     | 0.18                                     | 0.12  | 0.18                    | 0.05                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.01                                    | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 20.68                                    | 1.45  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.11                                     | 0.51  | 0.79                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.55                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.27                                     | 0.10  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.89                                     | 0.74  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.22                                     | 0.80  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.11                                     | 0.53  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.16                                    | 0.20  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.72                                     | 0.57  | 0.54                    |                                  |
| SLD72959        | SLD72959                     | 02/05/03        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.37                                     | 0.32  | 0.50                    | 0.54                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.10  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.11                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.82                                    | 1.54  | 0.91                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.20                                     | 1.38  | 2.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 4.24                                     | 0.24  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.01                                     | 0.19  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 2.07                                     | 0.78  | 0.39                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.56                                     | 1.07  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.86                                     | 0.73  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.52                                     | 0.53  | 0.96                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 4.44                                     | 1.19  | 1.43                    |                                  |
|                 | SLD72960                     | 02/05/03        | 1                                 | 1.5                |                                  | Actinium-227     | 0.45                                     | 0.29  | 0.47                    | 0.04                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.02                                    | 0.07  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.02                                    | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 13.47                                    | 1.58  | 0.59                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 1.13                                     | 1.31  | 1.78                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.70                                     | 0.15  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.92                                     | 0.17  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.13                                     | 0.63  | 0.49                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.82                                     | 0.79  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.23                                     | 0.64  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.02                                     | 0.46  | 0.79                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.78                                     | 1.26  | 1.15                    |                                  |
|                 | SLD72961                     | 02/05/03        | 2                                 | 2.5                |                                  | Actinium-227     | 0.40                                     | 0.15  | 0.24                    | 0.18                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.11                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.37                                    | 0.89  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.04                                     | 0.58  | 0.89                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 4.36                                     | 0.16  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.09                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.09                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 5.45                                     | 4.82  | 6.39                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.09                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.15                                     | 0.25  | 0.43                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 4.91                                     | 0.87  | 0.59                    |                                  |

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72959        | SLD72962                     | 02/05/03        | 4                                  | 4.5                |                                  | Actinium-227     | 0.28                                     | 0.31  | 0.50                    | 0.18                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.03                                    | 0.11  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.05  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 16.78                                    | 2.30  | 0.90                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.31                                     | 1.47  | 2.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.42                                     | 0.23  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.82                                     | 0.22  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 2.73                                     | 1.13  | 0.60                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 3.01                                     | 1.18  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 2.38                                     | 1.02  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.13                                    | 0.60  | 0.98                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.75                                     | 1.54  | 1.49                    |                                  |
| SLD72963        | SLD72963                     | 02/06/03        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.14                                     | 0.09  | 0.15                    | 0.10                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.04                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 5.83                                     | 0.59  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.17                                     | 0.44  | 0.68                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.02                                     | 0.09  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.51                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.51                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.99                                     | 3.09  | 4.81                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.51                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.01                                     | 0.20  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.74                                     | 0.43  | 0.47                    |                                  |
|                 | SLD72964                     | 02/06/03        | 0.5                                | 1.0                |                                  | Actinium-227     | 0.11                                     | 0.10  | 0.19                    | 0.05                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.02                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 12.92                                    | 1.04  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.34                                     | 0.50  | 0.78                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.74                                     | 0.09  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.77                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.77                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.68                                     | 3.26  | 5.38                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.77                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.03                                    | 0.21  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.03                                     | 0.52  | 0.56                    |                                  |
|                 | SLD72965                     | 02/06/03        | 3                                  | 3.8                |                                  | Actinium-227     | 0.31                                     | 0.12  | 0.20                    | 0.30                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 18.04                                    | 1.35  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.12                                     | 0.57  | 0.87                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.33                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.21                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.21                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 6.11                                     | 5.86  | 5.75                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.21                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.12                                     | 0.23  | 0.39                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.87                                     | 0.72  | 0.60                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72963        | SLD72966                     | 02/06/03        | 4.5                                | 5.0                |                                  | Actinium-227     | 0.29                                     | 0.13  | 0.22                    | 0.10                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.02                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 18.50                                    | 1.42  | 0.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.18                                    | 0.58  | 0.86                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.43                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.19                                     | 0.10  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.19                                     | 0.10  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -1.05                                    | 3.99  | 6.49                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.19                                     | 0.10  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.12                                     | 0.24  | 0.41                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.11                                     | 0.60  | 0.64                    |                                  |
| SLD72967        | SLD72967                     | 10/23/02        | 0                                  | 1.2                | 0.0                              | Actinium-227     | 0.36                                     | 0.25  | 0.41                    | 0.39                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.17                                     | 0.41  | 0.67                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 9.89                                     | 1.24  | 0.59                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.02                                    | 1.08  | 1.64                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 4.39                                     | 0.21  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.96                                     | 0.13  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.36                                     | 0.58  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.99                                     | 0.92  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.71                                     | 0.40  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.12                                     | 0.49  | 0.81                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 4.95                                     | 3.72  | 4.80                    |                                  |
|                 | SLD72968                     | 10/23/02        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.20                                     | 0.12  | 0.21                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.01                                    | 0.07  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 6.57                                     | 0.80  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.02                                    | 0.49  | 0.87                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.06                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.64                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.33                                     | 0.63  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.09                                     | 0.57  | 0.42                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.82                                     | 0.48  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.01                                    | 0.24  | 0.40                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.98                                     | 0.64  | 1.17                    |                                  |
|                 | SLD72969                     | 10/23/02        | 3.5                                | 4.0                |                                  | Actinium-227     | 0.19                                     | 0.17  | 0.28                    | 0.33                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.03                                     | 0.11  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.02                                    | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 17.05                                    | 1.46  | 0.40                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.23                                     | 0.69  | 1.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.81                                     | 0.11  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.18                                     | 0.12  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.18                                     | 0.12  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.83                                     | 7.89  | 13.06                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.18                                     | 0.12  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.09                                     | 0.30  | 0.51                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.82                                     | 1.26  | 1.39                    |                                  |



**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72967        | SLD72970                     | 10/23/02        | 5.2                                | 5.7                |                                  | Actinium-227     | 0.26                                     | 0.14  | 0.23                    | 0.29                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.09  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 19.60                                    | 1.50  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.04                                     | 0.68  | 1.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.66                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.25                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.25                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 5.29                                     | 7.43  | 11.76                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.25                                     | 0.11  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.29                                     | 0.34  | 0.47                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.00                                     | 1.21  | 1.21                    |                                  |
| SLD72971        | SLD72971                     | 02/05/03        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.04                                     | 0.07  | 0.11                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 2.13                                     | 0.33  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.06                                     | 0.27  | 0.46                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.24                                     | 0.06  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.18                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.18                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.77                                     | 2.10  | 3.49                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.18                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.06                                     | 0.14  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.54                                     | 0.37  | 0.33                    |                                  |
|                 | SLD72972                     | 02/05/03        | 1                                  | 1.5                |                                  | Actinium-227     | 0.29                                     | 0.34  | 0.54                    | 0.52                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.12  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.06  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 14.08                                    | 2.01  | 0.95                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 2.59                                     | 2.27  | 2.63                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 5.68                                     | 0.30  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.40                                     | 0.20  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 2.32                                     | 1.03  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 4.82                                     | 1.62  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.64                                     | 0.83  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.81                                     | 0.50  | 1.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 15.92                                    | 2.29  | 1.74                    |                                  |
|                 | SLD72973                     | 02/05/03        | 2.5                                | 3.0                |                                  | Actinium-227     | 0.44                                     | 0.37  | 0.61                    | 0.02                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.06                                    | 0.12  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.02                                    | 0.06  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 20.53                                    | 2.61  | 1.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 1.73                                     | 1.72  | 2.84                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.56                                     | 0.20  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.21                                     | 0.27  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.39                                     | 0.77  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.27                                     | 0.72  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.13                                     | 0.69  | 0.54                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.03                                    | 0.67  | 1.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.70                                     | 1.54  | 1.66                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72971        | SLD72974                     | 02/05/03        | 5                                 | 5.5                |                                  | Actinium-227     | 0.48                                     | 0.33  | 0.54                    | 0.06                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.06                                     | 0.11  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.06  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 20.62                                    | 2.52  | 0.92                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.02                                    | 1.58  | 2.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.85                                     | 0.18  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.57                                     | 0.22  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.82                                     | 0.53  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.07                                     | 0.87  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.40                                     | 0.70  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.36                                     | 0.60  | 1.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.82                                     | 1.25  | 1.56                    |                                  |
| SLD72975        | SLD72975                     | 01/21/03        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.05                                     | 0.06  | 0.10                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 0.69                                     | 0.23  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.13                                    | 0.27  | 0.46                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.72                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.15                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.15                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -0.28                                    | 1.60  | 2.75                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.15                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.05                                    | 0.12  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.45                                     | 0.23  | 0.28                    |                                  |
|                 | SLD72976                     | 01/21/03        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.36                                     | 0.13  | 0.22                    | 0.08                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.10                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 13.81                                    | 1.18  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.31                                     | 0.56  | 0.88                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.17                                     | 0.11  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.83                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.83                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -0.36                                    | 4.12  | 6.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.83                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.24                                     | 0.27  | 0.42                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.53                                     | 0.67  | 0.64                    |                                  |
|                 | SLD72977                     | 01/21/03        | 2.5                               | 3.0                |                                  | Actinium-227     | 0.31                                     | 0.14  | 0.23                    | 0.13                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.03                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 13.61                                    | 1.17  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.41                                     | 0.59  | 0.93                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.43                                     | 0.12  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.84                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.84                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 5.73                                     | 6.01  | 6.80                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.84                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.13                                     | 0.27  | 0.44                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.11                                     | 0.81  | 0.69                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup><br>(pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup><br>Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|---------------------------------------------|-------|-------------------------|-------------------------------------|
| SLD72975        | SLD72978                     | 01/21/03        | 4                                 | 4.5                |                                  | Actinium-227     | 0.50                                        | 0.34  | 0.57                    | 0.39                                |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                        | 0.10  | 0.16                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.04                                       | 0.05  | 0.09                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 19.43                                       | 2.42  | 0.74                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.77                                        | 1.63  | 2.56                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.16                                        | 0.20  | 0.24                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.22                                        | 0.23  | 0.23                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.22                                        | 0.23  | 0.23                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -1.34                                       | 9.44  | 14.62                   |                                     |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.22                                        | 0.23  | 0.23                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.22                                        | 0.59  | 1.00                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.05                                        | 1.76  | 1.48                    |                                     |
| SLD72979        | SLD72979                     | 01/14/03        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.06                                        | 0.06  | 0.10                    | 0.00                                |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                        | 0.02  | 0.03                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                        | 0.01  | 0.02                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.06                                        | 0.34  | 0.18                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.04                                        | 0.30  | 0.46                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.94                                        | 0.05  | 0.04                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.23                                        | 0.04  | 0.04                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.23                                        | 0.04  | 0.04                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.28                                        | 1.70  | 2.95                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.23                                        | 0.04  | 0.04                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.04                                        | 0.13  | 0.21                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.60                                        | 0.25  | 0.30                    |                                     |
|                 | SLD72980                     | 01/14/03        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.19                                        | 0.08  | 0.13                    | 0.00                                |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                        | 0.02  | 0.04                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.06                                        | 0.02  | 0.02                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.03                                        | 0.71  | 0.16                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.03                                        | 0.32  | 0.49                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.27                                        | 0.06  | 0.05                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.51                                        | 0.05  | 0.05                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.51                                        | 0.05  | 0.05                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.14                                        | 2.10  | 3.44                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.51                                        | 0.05  | 0.05                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.06                                        | 0.14  | 0.24                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.08                                        | 0.39  | 0.34                    |                                     |
|                 | SLD72981                     | 01/14/03        | 3.3                               | 3.8                |                                  | Actinium-227     | 0.27                                        | 0.11  | 0.18                    | 0.05                                |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                        | 0.04  | 0.06                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                        | 0.01  | 0.02                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 13.57                                       | 1.03  | 0.25                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.41                                        | 0.54  | 0.72                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.68                                        | 0.08  | 0.06                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.90                                        | 0.07  | 0.07                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.90                                        | 0.07  | 0.07                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.68                                        | 3.45  | 5.37                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.90                                        | 0.07  | 0.07                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.18                                        | 0.20  | 0.34                    |                                     |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.48                                        | 0.54  | 0.54                    |                                     |

**Table C-1**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72979        | SLD72982                     | 01/14/03        | 4.5                                | 5.0                |                                  | Actinium-227     | 0.34                                     | 0.09  | 0.15                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 15.91                                    | 1.10  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.00                                     | 0.37  | 0.56                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.36                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.88                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.88                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.42                                     | 2.54  | 4.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.88                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.13                                     | 0.15  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.11                                     | 0.46  | 0.41                    |                                  |
| SLD72983        | SLD72983                     | 01/14/03        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.03                                     | 0.06  | 0.09                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 3.29                                     | 0.37  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.18                                    | 0.25  | 0.42                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.00                                     | 0.05  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.21                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.21                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -0.30                                    | 1.68  | 2.87                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.21                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.01                                     | 0.12  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.90                                     | 0.29  | 0.28                    |                                  |
|                 | SLD72984                     | 01/14/03        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.15                                     | 0.09  | 0.15                    | 0.02                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.04                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.92                                    | 0.92  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.07                                    | 0.40  | 0.60                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.39                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.61                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.61                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -1.38                                    | 2.77  | 4.47                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.61                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.16                                     | 0.19  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.06                                     | 0.44  | 0.46                    |                                  |
|                 | SLD72985                     | 01/14/03        | 3.1                                | 3.6                |                                  | Actinium-227     | 0.20                                     | 0.10  | 0.16                    | 0.03                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 12.13                                    | 0.97  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.09                                     | 0.39  | 0.61                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.52                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.64                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.64                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.38                                     | 2.94  | 4.87                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.64                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.05                                     | 0.18  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.08                                     | 0.44  | 0.48                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72983        | SLD72986                     | 01/14/03        | 4.5                                | 5.0                |                                  | Actinium-227     | 0.13                                     | 0.10  | 0.15                    | 0.02                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 9.62                                     | 0.81  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.37                                     | 0.41  | 0.65                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.28                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.51                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.51                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.93                                     | 2.91  | 4.54                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.51                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.06                                     | 0.18  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.02                                     | 0.50  | 0.45                    |                                  |
| SLD72987        | SLD72987                     | 01/15/03        | 0                                  | 0.5                | 0.0                              | Actinium-227     | -0.01                                    | 0.18  | 0.28                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.04  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 0.94                                     | 0.71  | 0.52                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.22                                    | 0.82  | 1.42                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.89                                     | 0.11  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.25                                     | 0.11  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.27                                     | 0.24  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.00                                     | 0.49  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.21                                     | 0.21  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.05                                     | 0.33  | 0.57                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.33                                     | 0.50  | 0.90                    |                                  |
|                 | SLD72988                     | 01/15/03        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.10                                     | 0.08  | 0.14                    | 0.08                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.03                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 4.93                                     | 0.51  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.46                                     | 0.33  | 0.57                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.09                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.29                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.29                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -1.07                                    | 3.87  | 6.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.29                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.00                                     | 0.16  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.90                                     | 0.56  | 0.71                    |                                  |
|                 | SLD72989                     | 01/15/03        | 3                                  | 3.5                |                                  | Actinium-227     | 0.27                                     | 0.29  | 0.49                    | 0.82                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.04                                    | 0.20  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.83                                    | 1.61  | 0.77                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.15                                     | 1.26  | 2.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 4.55                                     | 0.26  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.17                                     | 0.17  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.17                                     | 0.17  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.54                                     | 15.41 | 24.33                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.17                                     | 0.17  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.20                                     | 0.61  | 1.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 7.39                                     | 3.05  | 2.61                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72981        | SLD72990                     | 01/15/03        | 5                                  | 5.5                |                                  | Actinium-227     | 0.20                                     | 0.15  | 0.25                    | 0.30                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.05                                     | 0.10  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 12.02                                    | 1.13  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.12                                    | 0.70  | 1.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.22                                     | 0.13  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.72                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.72                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 4.91                                     | 7.64  | 12.19                   |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.72                                     | 0.10  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.08                                    | 0.30  | 0.49                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.74                                     | 1.23  | 1.31                    |                                  |
| SLD72991        | SLD72991                     | 11/25/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.07                                     | 0.06  | 0.13                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.01  | 0.01                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 4.81                                     | 0.49  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.23                                    | 0.28  | 0.47                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.35                                     | 0.06  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.25                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.25                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.55                                     | 2.02  | 3.38                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.25                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.04                                    | 0.13  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.01                                     | 0.34  | 0.32                    |                                  |
|                 | SLD72992                     | 11/25/02        | 1.3                                | 1.8                |                                  | Actinium-227     | 0.09                                     | 0.07  | 0.17                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 8.38                                     | 0.66  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.27                                    | 0.37  | 0.54                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.05                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.82                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.82                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.39                                     | 2.43  | 3.96                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.82                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.08                                     | 0.16  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.25                                     | 0.41  | 0.38                    |                                  |
|                 | SLD72993                     | 11/25/02        | 3.1                                | 3.6                |                                  | Actinium-227     | 0.38                                     | 0.19  | 0.36                    | 0.71                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.06  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 16.08                                    | 1.29  | 0.46                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.94                                     | 0.89  | 1.40                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 11.20                                    | 0.36  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.40                                     | 0.12  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.40                                     | 0.12  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 6.19                                     | 5.88  | 9.67                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.40                                     | 0.12  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.61                                     | 0.35  | 0.62                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 7.30                                     | 1.26  | 0.92                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72991        | SLD72994                     | 11/25/02        | 4                                  | 4.5                |                                  | Actinium-227     | 0.25                                     | 0.11  | 0.19                    | 0.26                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.03                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 12.23                                    | 0.97  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.56                                    | 0.63  | 0.92                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 5.61                                     | 0.20  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.32                                     | 0.10  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.32                                     | 0.10  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 4.38                                     | 4.16  | 6.88                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.32                                     | 0.10  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.03                                     | 0.27  | 0.46                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.81                                     | 0.59  | 0.66                    |                                  |
| SLD72995        | SLD72995                     | 11/25/02        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.24                                     | 0.08  | 0.13                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 4.14                                     | 0.39  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.21                                     | 0.31  | 0.50                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.75                                     | 0.07  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.26                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.26                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.78                                     | 1.99  | 3.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.26                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.11                                     | 0.13  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.12                                     | 0.35  | 0.33                    |                                  |
|                 | SLD72996                     | 11/25/02        | 1.5                                | 2.0                |                                  | Actinium-227     | 0.27                                     | 0.16  | 0.29                    | 0.61                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 12.38                                    | 0.98  | 0.39                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.08                                     | 0.69  | 1.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 8.86                                     | 0.28  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.05                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.05                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 9.33                                     | 6.75  | 7.44                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.05                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.09                                     | 0.31  | 0.52                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 7.12                                     | 0.94  | 0.75                    |                                  |
|                 | SLD72997                     | 11/25/02        | 3.2                                | 3.7                |                                  | Actinium-227     | 0.53                                     | 0.16  | 0.26                    | 0.22                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.04                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 12.05                                    | 0.99  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.32                                     | 0.64  | 1.00                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 5.33                                     | 0.19  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.12                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.12                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 3.68                                     | 4.29  | 7.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.12                                     | 0.10  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.20                                     | 0.29  | 0.47                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.40                                     | 0.76  | 0.68                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72995        | SLD72998                     | 11/25/02        | 4.5                               | 5.0                |                                  | Actinium-227     | 0.30                                     | 0.15  | 0.25                    | 0.10                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.76                                     | 0.92  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.33                                    | 0.61  | 0.92                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.91                                     | 0.16  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.88                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.88                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.16                                     | 3.84  | 6.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.88                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.01                                    | 0.25  | 0.43                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.43                                     | 0.71  | 0.63                    |                                  |
| SLD72999        | SLD72999                     | 01/28/03        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.69                                     | 0.32  | 0.54                    | 0.03                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.09  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.02                                    | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 12.65                                    | 1.60  | 0.81                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.34                                    | 1.34  | 2.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.68                                     | 0.21  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.93                                     | 0.17  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.98                                     | 0.57  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.88                                     | 0.53  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.51                                     | 0.40  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.31                                     | 0.50  | 0.90                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.85                                     | 1.41  | 1.44                    |                                  |
|                 | SLD73000                     | 01/28/03        | 1                                 | 1.5                |                                  | Actinium-227     | 0.47                                     | 0.25  | 0.43                    | 0.06                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.02                                    | 0.08  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.04                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 8.66                                     | 1.31  | 0.71                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.41                                    | 1.04  | 1.81                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.76                                     | 0.19  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.64                                     | 0.14  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.90                                     | 0.63  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.44                                     | 1.09  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.34                                     | 0.40  | 0.58                    |                                  |
|                 | SLD73001                     | 01/28/03        | 2.5                               | 3.3                |                                  | Uranium-235      | -0.01                                    | 0.44  | 0.76                    | 0.44                             |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.80                                     | 1.45  | 1.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Actinium-227     | 0.48                                     | 0.31  | 0.50                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.10  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.03                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 11.39                                    | 1.56  | 0.76                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.62                                     | 1.37  | 2.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-220       | 7.83                                     | 0.33  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.13                                     | 0.17  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.80                                     | 0.88  | 0.45                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 5.29                                     | 1.70  | 0.45                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.30                                     | 0.73  | 0.45                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.60                                     | 0.57  | 1.00                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 6.01                                     | 1.45  | 1.45                    |                                  |



**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD72999        | SLD73002                     | 01/28/03        | 4.5                               | 5.0                |                                  | Actinium-227     | 0.33                                     | 0.11  | 0.19                    | 0.04                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 17.59                                    | 1.25  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.28                                     | 0.46  | 0.73                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.59                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.90                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.90                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.09                                     | 3.05  | 5.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.90                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.00                                     | 0.19  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.85                                     | 0.51  | 0.51                    |                                  |
| SLD73003        | SLD73003                     | 11/25/02        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.06                                     | 0.06  | 0.09                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.01                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.12                                     | 0.28  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.11                                     | 0.25  | 0.43                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.94                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.15                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.15                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.73                                     | 1.78  | 2.80                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.15                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.05                                     | 0.11  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.67                                     | 0.27  | 0.27                    |                                  |
|                 | SLD73004                     | 11/25/02        | 1                                 | 1.5                |                                  | Actinium-227     | 0.13                                     | 0.09  | 0.14                    | 0.01                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.10                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 3.54                                     | 0.47  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.13                                    | 0.35  | 0.60                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.67                                     | 0.08  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.37                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.37                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -0.35                                    | 2.67  | 4.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.37                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.02                                    | 0.17  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.52                                     | 0.40  | 0.42                    |                                  |
|                 | SLD73005                     | 11/25/02        | 3                                 | 3.5                |                                  | Actinium-227     | 0.26                                     | 0.16  | 0.26                    | 0.76                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.01                                    | 0.06  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.98                                     | 0.99  | 0.43                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.94                                     | 0.71  | 1.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 5.07                                     | 0.20  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.94                                     | 0.10  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.94                                     | 0.10  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 12.68                                    | 7.84  | 8.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.94                                     | 0.10  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.05                                     | 0.34  | 0.55                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.89                                     | 0.89  | 0.81                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD73003        | SLD73006                     | 11/25/02        | 4                                 | 4.5                |                                  | Actinium-227     | 0.22                                     | 0.13  | 0.21                    | 0.17                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.74                                    | 0.84  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.13                                    | 0.53  | 0.80                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 4.75                                     | 0.17  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.71                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.71                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.06                                     | 3.60  | 5.93                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.71                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.09                                     | 0.23  | 0.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.14                                     | 0.65  | 0.57                    |                                  |
| SLD73007        | SLD73007                     | 02/12/03        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.23                                     | 0.16  | 0.26                    | 0.58                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.08                                     | 0.06  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.20                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 8.36                                     | 0.91  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.27                                    | 0.74  | 1.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 4.94                                     | 0.19  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.95                                     | 0.09  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 2.00                                     | 0.75  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 4.50                                     | 1.23  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.77                                     | 0.43  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.38                                     | 0.29  | 0.55                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 4.92                                     | 0.99  | 0.81                    |                                  |
| SLD73009        | SLD73009                     | 02/12/03        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.17                                     | 0.09  | 0.20                    | 0.13                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.16                                     | 0.03  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 8.78                                     | 0.74  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.09                                     | 0.43  | 0.66                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.92                                     | 0.12  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.62                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.62                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.05                                     | 2.94  | 4.91                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.62                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.19                                     | 0.19  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.90                                     | 0.47  | 0.48                    |                                  |
|                 | SLD73010                     | 02/12/03        | 0.5                               | 1.0                |                                  | Actinium-227     | 0.47                                     | 0.38  | 0.59                    | 0.47                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.09                                     | 0.11  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 12.32                                    | 1.57  | 0.73                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.46                                    | 1.45  | 2.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-220       | 6.91                                     | 0.31  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.96                                     | 0.16  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.96                                     | 0.16  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.82                                     | 8.94  | 14.84                   |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.96                                     | 0.16  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.24                                     | 0.57  | 0.97                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 6.76                                     | 1.61  | 1.53                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD73011        | SLD73011                     | 01/29/03        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.12                                     | 0.06  | 0.10                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.07                                     | 0.01  | 0.01                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 3.86                                     | 0.35  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.11                                    | 0.28  | 0.42                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.80                                     | 0.07  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.40                                     | 0.04  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.40                                     | 0.04  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.30                                     | 1.75  | 2.87                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.40                                     | 0.04  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.08                                     | 0.12  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.33                                     | 0.34  | 0.28                    |                                  |
|                 | SLD73012                     | 01/29/03        | 1                                  | 1.5                |                                  | Actinium-227     | 0.24                                     | 0.09  | 0.15                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 10.55                                    | 0.77  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.25                                     | 0.36  | 0.57                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.12                                     | 0.09  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.72                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.72                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.43                                     | 2.49  | 4.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.72                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.11                                     | 0.16  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.63                                     | 0.44  | 0.40                    |                                  |
| SLD73013        | SLD73013                     | 02/04/03        | 0                                  | 0.5                | 0.0                              | Actinium-227     | 0.09                                     | 0.08  | 0.17                    | 0.18                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.05                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 9.45                                     | 0.82  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.25                                    | 0.50  | 0.73                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.31                                     | 0.10  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.76                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.76                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.78                                     | 3.25  | 5.44                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.76                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.27                                     | 0.28  | 0.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.88                                     | 0.70  | 0.53                    |                                  |
|                 | SLD73014                     | 02/04/03        | 1                                  | 1.5                |                                  | Actinium-227     | 0.21                                     | 0.09  | 0.16                    | 0.03                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 15.04                                    | 1.11  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.32                                     | 0.43  | 0.68                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.22                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.80                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.80                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | -2.63                                    | 3.15  | 4.72                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.80                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.03                                    | 0.19  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.25                                     | 0.50  | 0.48                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD73015        | SLD73015                     | 02/03/03        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.22                                     | 0.12  | 0.19                    | 0.29                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.07                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 6.25                                     | 0.73  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.11                                    | 0.56  | 0.84                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.98                                     | 0.10  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.53                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.53                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -2.00                                    | 3.82  | 6.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.53                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.40                                     | 0.30  | 0.42                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 4.73                                     | 0.79  | 0.59                    |                                  |
|                 | SLD73016                     | 02/03/03        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.23                                     | 0.13  | 0.21                    | 0.10                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.01                                    | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.02                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 11.38                                    | 0.97  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.26                                     | 0.57  | 0.87                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.00                                     | 0.13  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.94                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.94                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 4.11                                     | 3.80  | 6.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.94                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.05                                     | 0.24  | 0.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.40                                     | 0.62  | 0.62                    |                                  |
| SLD73017        | SLD73017                     | 02/03/03        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.30                                     | 0.12  | 0.19                    | 0.44                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.06                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.05                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 8.05                                     | 0.79  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.27                                     | 0.53  | 0.82                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.37                                     | 0.11  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.80                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.80                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | -0.53                                    | 4.39  | 6.72                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.80                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.51                                     | 0.24  | 0.39                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 9.13                                     | 1.07  | 0.67                    |                                  |
|                 | SLD73018                     | 02/03/03        | 0.5                               | 1.0                |                                  | Actinium-227     | 0.12                                     | 0.06  | 0.19                    | 0.13                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.06                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 11.11                                    | 0.96  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.14                                     | 0.53  | 0.81                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.86                                     | 0.12  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.77                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.77                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.50                                     | 3.98  | 6.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.77                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.12                                     | 0.24  | 0.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.95                                     | 0.72  | 0.62                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of Ratios Value <sup>5</sup> |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD75708        | SLD75708                     | 02/27/03        | 0                                 | 0.5                |                                  | Actinium-227     | 0.08                                     | 0.09  | 0.15                    | 0.43                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.02                                     | 0.01  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 7.94                                     | 0.72  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.14                                     | 0.43  | 0.65                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.56                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.52                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.83                                     | 0.44  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.83                                     | 0.66  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.76                                     | 0.40  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 1.22                                     | 0.20  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 23.01                                    | 1.76  | 0.65                    |                                  |
|                 | SLD75709                     | 02/27/03        | 0.5                               | 1.0                |                                  | Actinium-227     | 0.39                                     | 0.11  | 0.15                    | 0.58                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.02                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.33                                     | 0.82  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.22                                     | 0.49  | 0.75                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.43                                     | 0.10  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.75                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.80                                     | 0.42  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.89                                     | 1.06  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.95                                     | 0.45  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 1.20                                     | 0.24  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 23.81                                    | 1.97  | 0.74                    |                                  |
|                 | SLD75710                     | 02/27/03        | 2                                 | 2.5                |                                  | Actinium-227     | 0.22                                     | 0.11  | 0.18                    | 0.16                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.46                                    | 0.88  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.55                                     | 0.48  | 0.76                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.60                                     | 0.11  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.90                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.21                                     | 0.67  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.80                                     | 1.06  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.96                                     | 0.58  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.35                                     | 0.20  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 6.53                                     | 0.86  | 0.60                    |                                  |
| SLD75712        | SLD75712                     | 03/03/03        | 0                                 | 0.5                |                                  | Actinium-227     | 0.29                                     | 0.12  | 0.20                    | 0.13                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.19                                     | 0.03  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.18                                     | 0.84  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.14                                     | 0.54  | 0.82                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.80                                     | 0.12  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.69                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.66                                     | 0.81  | 0.46                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.18                                     | 0.92  | 0.46                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.92                                     | 0.56  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.35                                     | 0.22  | 0.39                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 5.44                                     | 0.86  | 0.60                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD75712        | SLD75713                     | 03/03/03        | 0.5                                | 1.0                |                                  | Actinium-227     | 0.13                                     | 0.09  | 0.14                    | 0.05                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.02                                    | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 8.62                                     | 0.72  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.23                                     | 0.40  | 0.62                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.57                                     | 0.07  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.57                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.66                                     | 0.50  | 0.43                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.80                                     | 0.87  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.24                                     | 0.71  | 0.51                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.03                                     | 0.18  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.19                                     | 0.61  | 0.45                    |                                  |
|                 | SLD75714                     | 03/03/03        | 2                                  | 2.5                |                                  | Actinium-227     | 0.15                                     | 0.10  | 0.16                    | 0.06                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 12.08                                    | 0.95  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.43                                     | 0.42  | 0.67                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.46                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.66                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.01                                     | 0.67  | 0.54                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.24                                     | 1.02  | 0.46                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.45                                     | 0.78  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.18                                     | 0.19  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.40                                     | 0.53  | 0.48                    |                                  |
| SLD75716        | SLD75716                     | 03/03/03        | 0                                  | 0.5                |                                  | Actinium-227     | 0.11                                     | 0.09  | 0.14                    | 0.24                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.13                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 7.59                                     | 0.63  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.25                                     | 0.40  | 0.62                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.56                                     | 0.10  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.65                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.41                                     | 0.60  | 0.39                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.85                                     | 0.89  | 0.39                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.52                                     | 0.34  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.29                                     | 0.18  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 4.37                                     | 0.55  | 0.44                    |                                  |
|                 | SLD75717                     | 03/03/03        | 0.5                                | 1.0                |                                  | Actinium-227     | 0.07                                     | 0.07  | 0.11                    | 0.07                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 7.56                                     | 0.59  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.22                                     | 0.30  | 0.48                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.71                                     | 0.07  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.60                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.35                                     | 0.56  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.28                                     | 0.75  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.26                                     | 0.53  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.33                                     | 0.23  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.13                                     | 0.45  | 0.36                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD75716        | SLD75718                     | 03/03/03        | 2.5                                | 3.0                |                                  | Actinium-227     | 0.10                                     | 0.08  | 0.12                    | 0.05                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.57                                    | 0.84  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.02                                    | 0.33  | 0.51                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.41                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.68                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.02                                     | 0.52  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.64                                     | 0.87  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.18                                     | 0.54  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.06                                     | 0.14  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.53                                     | 0.39  | 0.37                    |                                  |
| SLD75720        | SLD75720                     | 03/03/03        | 0                                  | 0.5                |                                  | Actinium-227     | 0.41                                     | 0.08  | 0.12                    | 0.75                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.04                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.02                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 8.13                                     | 0.62  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.46                                     | 0.29  | 0.61                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.26                                     | 0.09  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.64                                     | 0.05  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.07                                     | 0.51  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 3.58                                     | 1.02  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.72                                     | 0.40  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 1.18                                     | 0.22  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 22.41                                    | 1.63  | 0.54                    |                                  |
|                 | SLD75721                     | 03/03/03        | 0.5                                | 1.0                |                                  | Actinium-227     | 0.57                                     | 0.07  | 0.12                    | 0.60                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 8.21                                     | 0.63  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.81                                     | 0.41  | 0.65                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.30                                     | 0.09  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.68                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.93                                     | 0.49  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 5.19                                     | 1.36  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.14                                     | 0.53  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 1.12                                     | 0.19  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 20.44                                    | 1.57  | 0.54                    |                                  |
|                 | SLD75722                     | 03/03/03        | 3                                  | 3.5                |                                  | Actinium-227     | 0.04                                     | 0.08  | 0.12                    | 0.03                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.01                                    | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 12.93                                    | 0.89  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.10                                     | 0.32  | 0.50                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.39                                     | 0.06  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.70                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.88                                     | 0.48  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.18                                     | 0.77  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.61                                     | 0.39  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.06                                     | 0.14  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.04                                     | 0.39  | 0.37                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD75723        | SLD75723                     | 03/17/03        | 0                                 | 0.5                |                                  | Actinium-227     | 0.03                                     | 0.09  | 0.13                    | 0.33                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.04                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.39                                     | 0.69  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.14                                     | 0.36  | 0.56                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.31                                     | 0.09  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.73                                     | 0.06  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.40                                     | 0.62  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.22                                     | 1.00  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.88                                     | 0.46  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.35                                     | 0.17  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 5.24                                     | 0.60  | 0.43                    |                                  |
|                 | SLD75724                     | 03/17/03        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.15                                     | 0.09  | 0.12                    | 0.04                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.63                                     | 0.70  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.36                                     | 0.33  | 0.54                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.89                                     | 0.08  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.65                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.39                                     | 0.35  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.56                                     | 1.00  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.86                                     | 0.54  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.17                                     | 0.15  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.53                                     | 0.43  | 0.37                    |                                  |
|                 | SLD75725                     | 03/17/03        | 2.5                               | 3.0                |                                  | Actinium-227     | 0.03                                     | 0.06  | 0.10                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.01  | 0.01                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 7.60                                     | 0.59  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.02                                     | 0.26  | 0.41                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.26                                     | 0.06  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.41                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.33                                     | 0.30  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 0.88                                     | 0.50  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.38                                     | 0.31  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.01                                     | 0.12  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.01                                     | 0.26  | 0.29                    |                                  |
| SLD75726        | SLD75726                     | 04/08/03        | 0                                 | 0.5                | 0.0                              | Actinium-227     | 0.11                                     | 0.11  | 0.18                    | 0.24                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.07                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.11                                     | 0.04  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 7.43                                     | 0.72  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.39                                     | 0.49  | 0.77                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.60                                     | 0.11  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.71                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.11                                     | 0.58  | 0.42                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.05                                     | 1.03  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.00                                     | 0.53  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.21                                     | 0.22  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.40                                     | 0.51  | 0.56                    |                                  |



**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft <sup>1</sup> bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD75726        | SLD75727                     | 04/08/03        | 0.5                                            | 1.0                |                                  | Actinium-227     | 0.20                                     | 0.14  | 0.22                    | 0.09                             |
|                 |                              |                 |                                                |                    |                                  | Americium-241    | 0.03                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Potassium-40     | 11.97                                    | 1.11  | 0.34                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Protactinium-231 | 0.17                                     | 0.59  | 0.91                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Radium-226       | 2.69                                     | 0.12  | 0.07                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Radium-228       | 0.95                                     | 0.09  | 0.08                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-228      | 1.27                                     | 0.75  | 0.26                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-230      | 2.91                                     | 1.21  | 0.48                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-232      | 1.11                                     | 0.69  | 0.48                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Uranium-235      | 0.01                                     | 0.27  | 0.45                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Uranium-238      | 2.54                                     | 0.69  | 0.67                    |                                  |
| SLD75728        | SLD75728                     | 04/08/03        | 0                                              | 0.5                | 0.0                              | Actinium-227     | 0.21                                     | 0.11  | 0.18                    | 0.31                             |
|                 |                              |                 |                                                |                    |                                  | Americium-241    | -0.01                                    | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Cesium-137       | 0.09                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Potassium-40     | 7.02                                     | 0.68  | 0.25                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Protactinium-231 | 0.10                                     | 0.52  | 0.79                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Radium-226       | 3.09                                     | 0.12  | 0.07                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Radium-228       | 0.63                                     | 0.08  | 0.07                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-228      | 1.14                                     | 0.59  | 0.18                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-230      | 3.32                                     | 1.10  | 0.18                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-232      | 0.65                                     | 0.43  | 0.18                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Uranium-235      | 0.06                                     | 0.23  | 0.38                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Uranium-238      | 3.29                                     | 0.65  | 0.56                    |                                  |
|                 | SLD75729                     | 04/08/03        | 1                                              | 1.5                |                                  | Actinium-227     | 0.24                                     | 0.11  | 0.18                    | 0.08                             |
|                 |                              |                 |                                                |                    |                                  | Americium-241    | 0.03                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Potassium-40     | 13.17                                    | 1.05  | 0.30                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Protactinium-231 | 0.54                                     | 0.65  | 0.77                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Radium-226       | 1.97                                     | 0.10  | 0.07                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Radium-228       | 0.77                                     | 0.07  | 0.07                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-228      | 1.46                                     | 0.81  | 0.26                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-230      | 2.36                                     | 1.06  | 0.26                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-232      | 1.48                                     | 0.82  | 0.47                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Uranium-235      | 0.17                                     | 0.22  | 0.37                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Uranium-238      | 2.59                                     | 0.69  | 0.58                    |                                  |
|                 | SLD75730                     | 04/08/03        | 2.5                                            | 3.0                |                                  | Actinium-227     | 0.12                                     | 0.13  | 0.21                    | 0.07                             |
|                 |                              |                 |                                                |                    |                                  | Americium-241    | 0.07                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Potassium-40     | 12.89                                    | 1.07  | 0.32                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Protactinium-231 | 0.12                                     | 0.58  | 0.89                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Radium-226       | 2.37                                     | 0.11  | 0.08                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Radium-228       | 0.88                                     | 0.08  | 0.08                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-228      | 1.52                                     | 0.79  | 0.42                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-230      | 2.27                                     | 0.99  | 0.56                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Thorium-232      | 0.79                                     | 0.55  | 0.50                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Uranium-235      | 0.30                                     | 0.25  | 0.42                    |                                  |
|                 |                              |                 |                                                |                    |                                  | Uranium-238      | 4.02                                     | 0.61  | 0.61                    |                                  |

**Table C-1**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD76911        | SLD76911                     | 05/28/03        | 0.2                               | 0.5                |                                  | Actinium-227     | 2.07                                     | 0.20  | 0.27                    | 0.04                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.15                                     | 0.17  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.08                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 14.42                                    | 1.01  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.39                                     | 0.52  | 0.78                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.44                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.87                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.95                                     | 0.49  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.87                                     | 0.70  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.00                                     | 0.49  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.00                                     | 0.22  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.27                                     | 1.32  | 1.92                    |                                  |
|                 | SLD76912                     | 05/28/03        | 0.7                               | 1.0                |                                  | Actinium-227     | 1.23                                     | 0.26  | 0.51                    | 2.43                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.76                                    | 0.52  | 0.83                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.07                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 11.16                                    | 1.18  | 0.81                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.86                                     | 1.57  | 2.59                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 38.66                                    | 1.08  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.05                                     | 0.14  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.04                                     | 0.56  | 0.49                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 4.84                                     | 1.38  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.11                                     | 0.56  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 1.24                                     | 0.91  | 1.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | -0.32                                    | 3.86  | 6.32                    |                                  |
|                 | SLD76913                     | 05/28/03        | 2.5                               | 2.8                |                                  | Actinium-227     | 3.75                                     | 0.51  | 0.85                    | 0.27                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.17                                     | 0.76  | 0.96                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 12.32                                    | 1.48  | 0.68                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 2.02                                     | 1.46  | 2.59                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 5.72                                     | 0.27  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.42                                     | 0.19  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 2.13                                     | 0.79  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 4.35                                     | 1.24  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.63                                     | 0.67  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.16                                     | 0.68  | 1.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 4.63                                     | 4.64  | 7.10                    |                                  |
|                 | SLD76914                     | 05/28/03        | 5.2                               | 5.5                |                                  | Actinium-227     | 1.49                                     | 0.18  | 0.27                    | 0.02                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.17                                     | 0.17  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 15.03                                    | 1.09  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.68                                     | 0.55  | 0.85                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.07                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.64                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.14                                     | 0.53  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.27                                     | 0.56  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.32                                     | 0.58  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.12                                    | 0.23  | 0.39                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.58                                     | 1.34  | 1.88                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD76918        | SLD76918                     | 05/28/03        | 0.2                                | 0.5                |                                  | Actinium-227     | 0.14                                     | 0.10  | 0.15                    | 0.21                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.01                                    | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 17.62                                    | 1.23  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.02                                     | 0.41  | 0.64                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.22                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.89                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.77                                     | 0.70  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.99                                     | 0.96  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.07                                     | 0.52  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.04                                     | 0.18  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.16                                     | 0.53  | 0.41                    |                                  |
|                 | SLD76919                     | 05/28/03        | 1.7                                | 2.0                |                                  | Actinium-227     | 3.04                                     | 0.28  | 0.39                    | 0.32                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.03                                     | 0.25  | 0.37                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.03                                     | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.64                                    | 0.93  | 0.33                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 1.23                                     | 0.77  | 1.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 5.30                                     | 0.19  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.03                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.83                                     | 0.73  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 5.97                                     | 1.57  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.23                                     | 0.58  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.38                                     | 0.38  | 0.57                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.54                                     | 1.80  | 2.81                    |                                  |
|                 | SLD76920                     | 05/28/03        | 3.2                                | 3.5                |                                  | Actinium-227     | 0.27                                     | 0.15  | 0.23                    | 0.38                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.01                                    | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 15.39                                    | 1.13  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.33                                     | 0.65  | 1.01                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 6.47                                     | 0.22  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.41                                     | 0.09  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.89                                     | 0.72  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 6.28                                     | 1.57  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.46                                     | 0.61  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.36                                     | 0.39  | 0.48                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 4.26                                     | 0.71  | 0.67                    |                                  |
|                 | SLD76921                     | 05/28/03        | 5.2                                | 5.3                |                                  | Actinium-227     | 0.11                                     | 0.07  | 0.14                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 15.67                                    | 1.08  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.25                                     | 0.35  | 0.57                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.40                                     | 0.07  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.82                                     | 0.06  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.55                                     | 0.66  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.65                                     | 0.68  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.10                                     | 0.55  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.05                                    | 0.16  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.15                                     | 0.43  | 0.41                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD76942        | SLD76942                     | 06/02/03        | 0                                 | 0.3                |                                  | Actinium-227     | 0.18                                     | 0.29  | 0.47                    | 0.88                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.15                                     | 0.22  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.58                                     | 0.09  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.33                                     | 1.44  | 0.86                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.53                                    | 1.41  | 2.42                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 5.28                                     | 0.28  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.22                                     | 0.20  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.14                                     | 0.58  | 0.51                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 4.62                                     | 1.31  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 2.60                                     | 0.90  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.18                                     | 0.62  | 1.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.72                                     | 2.66  | 2.86                    |                                  |
| SLD76943        | SLD76943                     | 06/02/03        | 0                                 | 0.3                |                                  | Actinium-227     | 0.00                                     | 0.37  | 0.58                    | 0.66                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.10                                     | 0.24  | 0.39                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 2.79                                     | 0.25  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 9.32                                     | 1.56  | 1.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 1.06                                     | 1.63  | 2.66                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 4.92                                     | 0.29  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.73                                     | 0.22  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.58                                     | 0.65  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 4.02                                     | 1.15  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.66                                     | 0.66  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.38                                    | 0.68  | 1.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 5.41                                     | 2.91  | 3.28                    |                                  |
| SLD87283        | SLD87283                     | 05/18/05        | 0                                 | 0.5                |                                  | Actinium-227     | -0.16                                    | 0.27  | 0.42                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.05  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.03                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 3.63                                     | 0.74  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.16                                     | 0.80  | 1.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.28                                     | 0.37  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.05                                     | 0.12  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.41                                     | 0.29  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.51                                     | 0.61  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.03                                     | 0.11  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.01                                    | 0.33  | 0.56                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | -0.01                                    | 0.59  | 1.03                    |                                  |
|                 | SLD87293                     | 05/18/05        | 1                                 | 1.5                |                                  | Actinium-227     | -0.19                                    | 0.17  | 0.27                    | 0.02                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.06                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.02                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 19.48                                    | 1.19  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.39                                     | 0.55  | 0.80                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.76                                     | 0.43  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.97                                     | 0.07  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.90                                     | 0.70  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.19                                     | 0.76  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.76                                     | 0.41  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.04                                     | 0.22  | 0.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.13                                     | 0.53  | 0.58                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD87283        | SLD87326                     | 06/16/05        | 1.5                               | 2.0                |                                  | Actinium-227     | -0.27                                    | 0.28  | 0.40                    | 0.18                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.10  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.08                                     | 0.04  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 8.46                                     | 0.92  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.56                                     | 0.76  | 1.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.78                                     | 0.90  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.90                                     | 0.09  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.77                                     | 0.45  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 4.03                                     | 1.18  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.39                                     | 0.62  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.12                                     | 0.35  | 0.57                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.50                                     | 1.27  | 1.41                    |                                  |
|                 | SLD87325                     | 06/16/05        | 2.5                               | 3.0                |                                  | Actinium-227     | 0.75                                     | 0.72  | 1.16                    | 0.69                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.31  | 0.48                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.04                                    | 0.06  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.65                                    | 1.70  | 0.89                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.40                                     | 1.76  | 2.99                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 10.77                                    | 2.58  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.26                                     | 0.21  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.49                                     | 0.64  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 6.20                                     | 1.59  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.38                                     | 0.61  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.39                                     | 0.84  | 1.39                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 8.36                                     | 3.35  | 3.87                    |                                  |
|                 | SLD87324                     | 06/16/05        | 4                                 | 4.5                |                                  | Actinium-227     | 0.30                                     | 0.66  | 1.02                    | 0.55                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.29  | 0.44                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.04                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 11.53                                    | 1.67  | 1.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.91                                    | 1.66  | 2.69                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 9.66                                     | 2.32  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.25                                     | 0.21  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.57                                     | 0.63  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 7.40                                     | 1.75  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.48                                     | 0.61  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.91                                     | 1.02  | 1.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 4.64                                     | 3.60  | 3.83                    |                                  |
|                 | SLD87295                     | 05/19/05        | 5                                 | 6.0                |                                  | Actinium-227     | 0.50                                     | 0.45  | 0.77                    | 0.22                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.05                                     | 0.10  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.02                                    | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 8.41                                     | 1.25  | 0.64                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.05                                     | 1.39  | 2.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 5.44                                     | 1.34  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.84                                     | 0.16  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.78                                     | 0.41  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.73                                     | 1.03  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.84                                     | 0.42  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.32                                     | 0.58  | 0.99                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.57                                     | 1.15  | 1.50                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD87283        | SLD87283                     | 06/16/05        | 5                                 | 5.5                |                                  | Actinium-227     | 0.12                                     | 0.53  | 0.91                    | 0.45                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.12                                    | 0.27  | 0.41                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.02                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 11.77                                    | 1.71  | 0.74                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -1.23                                    | 1.67  | 2.68                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 7.88                                     | 1.93  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.34                                     | 0.23  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.13                                     | 0.53  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 5.47                                     | 1.42  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.95                                     | 0.48  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.04                                    | 0.72  | 1.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 5.67                                     | 3.30  | 3.26                    |                                  |
|                 | SLD87294                     | 05/18/05        | 6.5                               | 7.0                |                                  | Actinium-227     | -0.08                                    | 0.19  | 0.30                    | 0.02                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 20.14                                    | 1.25  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.92                                     | 0.59  | 0.91                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.75                                     | 0.43  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.31                                     | 0.08  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.82                                     | 0.67  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.67                                     | 0.64  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.76                                     | 0.41  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.06                                    | 0.23  | 0.39                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.03                                     | 0.59  | 0.62                    |                                  |
| SLD87284        | SLD87291                     | 05/18/05        | 0                                 | 0.5                |                                  | Actinium-227     | 0.72                                     | 0.11  | 0.29                    | 0.15                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.05                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.10                                     | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 7.65                                     | 0.65  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.61                                     | 0.61  | 0.90                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.35                                     | 0.56  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.59                                     | 0.06  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.60                                     | 0.36  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.02                                     | 0.70  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.38                                     | 0.28  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.52                                     | 0.23  | 0.39                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 8.01                                     | 0.81  | 0.64                    |                                  |
|                 | SLD87290                     | 05/18/05        | 1.5                               | 2.0                |                                  | Actinium-227     | 0.07                                     | 0.19  | 0.32                    | 0.09                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 21.78                                    | 1.34  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.48                                     | 0.58  | 0.87                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.73                                     | 0.43  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.19                                     | 0.08  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.51                                     | 0.60  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.68                                     | 0.63  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.63                                     | 0.36  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.38                                     | 0.20  | 0.41                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 5.21                                     | 0.68  | 0.67                    |                                  |

Table C-1  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD87284        | SLD87292                     | 05/18/05        | 2                                  | 2.5                |                                  | Actinium-227     | 0.54                                     | 0.60  | 0.66                    | 0.10                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.10                                     | 0.09  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.03                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.35                                    | 1.34  | 0.53                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.20                                    | 1.25  | 1.74                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.09                                     | 0.58  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.75                                     | 0.13  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.53                                     | 0.33  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.27                                     | 0.73  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.82                                     | 0.41  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.44                                     | 0.47  | 0.82                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 5.45                                     | 1.53  | 1.33                    |                                  |
| SLD87285        | SLD87285                     | 05/19/05        | 0                                  | 0.5                |                                  | Actinium-227     | -0.18                                    | 0.33  | 0.53                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.04                                     | 0.07  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 3.75                                     | 0.75  | 0.38                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.15                                    | 0.92  | 1.46                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.40                                     | 0.41  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.21                                     | 0.20  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.16                                     | 0.22  | 0.38                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.63                                     | 0.70  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.13                                     | 0.18  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.23                                     | 0.38  | 0.66                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.39                                     | 0.99  | 0.96                    |                                  |
|                 | SLD87296                     | 05/19/05        | 1                                  | 1.5                |                                  | Actinium-227     | -0.10                                    | 0.24  | 0.38                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 1.51                                     | 0.44  | 0.39                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.33                                    | 0.69  | 1.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 0.86                                     | 0.27  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.07                                     | 0.09  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.09                                     | 0.18  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 0.61                                     | 0.49  | 0.45                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | -0.02                                    | 0.05  | 0.45                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.02                                    | 0.28  | 0.47                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.60                                     | 0.69  | 0.73                    |                                  |
|                 | SLD87297                     | 05/19/05        | 4                                  | 4.5                |                                  | Actinium-227     | -0.02                                    | 0.13  | 0.21                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.03                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 12.61                                    | 0.81  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.31                                     | 0.40  | 0.59                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.10                                     | 0.28  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.81                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.48                                     | 0.60  | 0.34                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.16                                     | 0.75  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.86                                     | 0.44  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.10                                     | 0.17  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.20                                     | 0.44  | 0.44                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD87285        | SLD87298                     | 05/19/05        | 7.5                                | 8.0                |                                  | Actinium-227     | -0.04                                    | 0.16  | 0.26                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.04  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 17.85                                    | 1.11  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.29                                     | 0.52  | 0.76                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.24                                     | 0.31  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.85                                     | 0.07  | 0.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.12                                     | 0.53  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.03                                     | 0.75  | 0.32                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.03                                     | 0.50  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.14                                     | 0.20  | 0.34                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.49                                     | 0.54  | 0.53                    |                                  |
| SLD87286        | SLD87286                     | 05/23/05        | 0                                  | 0.5                |                                  | Actinium-227     | 0.23                                     | 0.28  | 0.48                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.09                                     | 0.07  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.02                                    | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 0.84                                     | 0.65  | 0.40                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.50                                    | 0.88  | 1.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.03                                     | 0.32  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.03                                     | 0.12  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.13                                     | 0.16  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.34                                     | 0.54  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.09                                     | 0.13  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.05                                    | 0.35  | 0.59                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.95                                     | 0.94  | 1.02                    |                                  |
|                 | SLD87306                     | 05/23/05        | 1                                  | 1.5                |                                  | Actinium-227     | 0.29                                     | 0.61  | 0.90                    | 0.53                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.02                                     | 0.13  | 0.19                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.34                                     | 0.09  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 8.30                                     | 1.42  | 0.81                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -1.42                                    | 1.56  | 2.50                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 8.21                                     | 1.99  | 0.25                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.77                                     | 0.18  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.24                                     | 0.58  | 0.34                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 4.89                                     | 1.35  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.85                                     | 0.47  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.97                                     | 1.16  | 1.21                    |                                  |
|                 | SLD87307                     | 05/23/05        | 3.5                                | 4.0                |                                  | Uranium-238      | 9.89                                     | 2.05  | 1.78                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Actinium-227     | -0.45                                    | 0.54  | 0.82                    | 0.26                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.01                                    | 0.12  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.05  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 8.91                                     | 1.67  | 0.68                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.38                                     | 1.54  | 2.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 4.50                                     | 1.16  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.41                                     | 0.21  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.99                                     | 0.53  | 0.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 4.84                                     | 1.37  | 0.36                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.96                                     | 0.77  | 0.30                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.18                                    | 0.63  | 1.01                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.12                                     | 1.74  | 1.65                    |                                  |



**Table C-1**  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD87286        | SLD87308                     | 05/23/05        | 4.5                               | 5.0                |                                  | Actinium-227     | 0.11                                     | 0.21  | 0.32                    | 0.01                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.05                                    | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.02                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 18.05                                    | 1.14  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.03                                    | 0.57  | 0.85                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.44                                     | 0.37  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.05                                     | 0.08  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.77                                     | 0.39  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.13                                     | 0.49  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.98                                     | 0.45  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.08                                    | 0.23  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.16                                     | 0.58  | 0.57                    |                                  |
|                 | SLD87309                     | 05/23/05        | 6                                 | 6.5                |                                  | Actinium-227     | -0.20                                    | 0.44  | 0.67                    | 0.02                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.02                                    | 0.10  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.03                                    | 0.06  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 16.04                                    | 1.91  | 0.71                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.93                                     | 1.28  | 2.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.56                                     | 0.48  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.11                                     | 0.18  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.19                                     | 0.52  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.97                                     | 0.09  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.66                                     | 0.37  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.11                                     | 0.49  | 0.81                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.97                                     | 1.68  | 1.28                    |                                  |
|                 | SLD87318                     | 05/23/05        | 6.5                               | 7.0                |                                  | Actinium-227     | 0.06                                     | 0.12  | 0.21                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.03                                    | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 2.19                                     | 0.38  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.11                                     | 0.34  | 0.59                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 0.80                                     | 0.22  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.12                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.12                                     | 0.24  | 0.49                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.40                                     | 0.73  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | -0.04                                    | 0.06  | 0.49                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.09                                     | 0.16  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.32                                     | 0.42  | 0.74                    |                                  |
|                 | SLD87319                     | 05/23/05        | 7.5                               | 8.0                |                                  | Actinium-227     | 0.08                                     | 0.22  | 0.38                    | 0.04                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.09  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 17.66                                    | 1.34  | 0.22                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.00                                     | 0.67  | 1.00                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.56                                     | 0.41  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.12                                     | 0.10  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.74                                     | 0.68  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.25                                     | 0.79  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.90                                     | 0.47  | 0.27                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.16                                    | 0.28  | 0.44                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.72                                     | 1.05  | 1.20                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD87287        | SLD87287                     | 05/23/05        | 0                                  | 0.5                |                                  | Actinium-227     | -0.16                                    | 0.30  | 0.48                    | 0.01                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.01                                     | 0.07  | 0.10                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 3.57                                     | 0.73  | 0.47                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.19                                    | 0.87  | 1.39                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 2.27                                     | 0.59  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.44                                     | 0.09  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.78                                     | 0.41  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.75                                     | 0.64  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.22                                     | 0.22  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.02                                     | 0.38  | 0.65                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.04                                     | 1.24  | 0.97                    |                                  |
|                 | SLD87299                     | 05/23/05        | 0.5                                | 1.0                |                                  | Actinium-227     | 0.23                                     | 0.40  | 0.68                    | 0.06                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.05                                     | 0.09  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.03                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 6.53                                     | 0.96  | 0.48                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.66                                     | 1.28  | 1.89                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 3.27                                     | 0.84  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.55                                     | 0.15  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.82                                     | 0.42  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.18                                     | 0.73  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.37                                     | 0.27  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.07                                     | 0.48  | 0.81                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 2.84                                     | 1.37  | 1.26                    |                                  |
|                 | SLD87301                     | 05/23/05        | 3                                  | 3.5                |                                  | Actinium-227     | 0.79                                     | 0.54  | 0.85                    | 0.35                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.05                                     | 0.11  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.02                                    | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.55                                    | 1.82  | 0.72                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.94                                     | 1.74  | 2.39                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 6.60                                     | 1.59  | 0.23                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.31                                     | 0.18  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.70                                     | 0.67  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 5.40                                     | 1.39  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.05                                     | 0.50  | 0.14                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.20                                     | 0.62  | 1.05                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 5.02                                     | 1.77  | 1.70                    |                                  |
|                 | SLD87302                     | 05/23/05        | 4.5                                | 5.0                |                                  | Actinium-227     | 0.07                                     | 0.15  | 0.21                    | 0.00                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.00                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 11.57                                    | 0.75  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.24                                     | 0.42  | 0.65                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.02                                     | 0.26  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 0.62                                     | 0.06  | 0.08                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 0.56                                     | 0.32  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.04                                     | 0.45  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.55                                     | 0.32  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.04                                     | 0.16  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.46                                     | 0.30  | 0.51                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD87287        | SLD87303                     | 05/23/05        | 6.5                               | 7.0                |                                  | Actinium-227     | -0.01                                    | 0.55  | 0.87                    | 0.18                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.09                                     | 0.12  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.02                                    | 0.06  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 12.93                                    | 1.91  | 0.95                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 2.38                                     | 2.11  | 2.57                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 4.48                                     | 1.17  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.31                                     | 0.20  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.26                                     | 0.57  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.82                                     | 0.92  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.32                                     | 0.58  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.40                                     | 0.65  | 1.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.65                                     | 1.71  | 1.56                    |                                  |
|                 | SLD87304                     | 05/23/05        | 9                                 | 9.5                |                                  | Actinium-227     | -0.10                                    | 0.70  | 1.10                    | 0.34                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.14  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.03                                    | 0.06  | 0.10                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 10.86                                    | 1.96  | 1.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.51                                    | 1.79  | 2.59                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 6.00                                     | 1.54  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.37                                     | 0.21  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.50                                     | 0.64  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 4.88                                     | 1.33  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.30                                     | 0.59  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.27                                     | 0.74  | 1.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 6.25                                     | 1.81  | 1.75                    |                                  |
|                 | SLD87305                     | 05/23/05        | 10.3                              | 10.8               |                                  | Actinium-227     | 0.08                                     | 0.19  | 0.30                    | 0.02                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.01                                    | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.01                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 18.88                                    | 1.12  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.18                                     | 0.54  | 0.83                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.44                                     | 0.37  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.93                                     | 0.08  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.08                                     | 0.49  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.07                                     | 0.49  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.42                                     | 0.58  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.20                                     | 0.22  | 0.38                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.24                                     | 0.62  | 0.56                    |                                  |
| SLD87288        | SLD87288                     | 05/24/05        | 0                                 | 0.5                |                                  | Actinium-227     | 0.04                                     | 0.30  | 0.49                    | 0.24                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.08  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.32                                     | 0.05  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 6.19                                     | 0.90  | 0.36                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.29                                     | 0.88  | 1.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.09                                     | 0.54  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.51                                     | 0.09  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.57                                     | 0.36  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.22                                     | 0.75  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.59                                     | 0.35  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.74                                     | 0.44  | 0.64                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 10.55                                    | 1.45  | 1.06                    |                                  |

Table C-1  
PSC Metals Vicinity Property (DT-8)  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD87288        | SLD87310                     | 05/24/05        | 0.5                               | 1.0                |                                  | Actinium-227     | 0.15                                     | 0.42  | 0.62                    | 0.64                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.01                                    | 0.13  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.53                                     | 0.08  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 12.31                                    | 1.56  | 0.46                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.62                                    | 1.33  | 1.79                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.50                                     | 0.88  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.85                                     | 0.14  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.69                                     | 0.64  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 3.11                                     | 0.93  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.97                                     | 0.46  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 1.52                                     | 0.57  | 0.86                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 29.72                                    | 2.71  | 1.64                    |                                  |
|                 | SLD87320                     | 05/24/05        | 1                                 | 1.5                |                                  | Actinium-227     | 0.01                                     | 0.28  | 0.48                    | 0.13                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.04                                    | 0.12  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 12.94                                    | 1.21  | 0.40                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.76                                     | 0.84  | 1.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 3.66                                     | 0.89  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.07                                     | 0.10  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.18                                     | 0.53  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.96                                     | 0.92  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.08                                     | 0.50  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.33                                     | 0.39  | 0.66                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 4.38                                     | 1.69  | 1.62                    |                                  |
|                 | SLD87321                     | 05/24/05        | 2.5                               | 3.0                |                                  | Actinium-227     | -0.02                                    | 0.20  | 0.34                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.01                                    | 0.08  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.02                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 15.25                                    | 1.29  | 0.33                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.22                                     | 0.69  | 1.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.30                                     | 0.35  | 0.09                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.91                                     | 0.09  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.50                                     | 0.59  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.60                                     | 0.61  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.83                                     | 0.36  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.01                                    | 0.29  | 0.46                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.54                                     | 0.76  | 1.33                    |                                  |
|                 | SLD87311                     | 05/24/05        | 3                                 | 3.5                |                                  | Actinium-227     | 0.38                                     | 0.33  | 0.51                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.03                                     | 0.07  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 16.31                                    | 1.52  | 0.46                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.18                                    | 1.04  | 1.43                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.62                                     | 0.45  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.95                                     | 0.12  | 0.16                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.86                                     | 0.43  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.37                                     | 0.56  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.60                                     | 0.36  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.50                                     | 0.39  | 0.69                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.54                                     | 1.27  | 0.98                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD87288        | SLD87312                     | 05/24/05        | 5                                 | 5.5                |                                  | Actinium-227     | 0.06                                     | 0.15  | 0.25                    | 0.01                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.02  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 17.40                                    | 1.10  | 0.20                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.53                                     | 0.44  | 0.68                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.43                                     | 0.36  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.96                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.46                                     | 0.60  | 0.34                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.74                                     | 0.66  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.25                                     | 0.54  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.13                                    | 0.20  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.32                                     | 0.63  | 0.51                    |                                  |
|                 | SLD87317                     | 05/24/05        | 5.5                               | 6.0                |                                  | Actinium-227     | -0.24                                    | 0.32  | 0.47                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.08  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.03                                    | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 14.05                                    | 1.45  | 0.36                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | -0.44                                    | 0.91  | 1.37                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.50                                     | 0.43  | 0.14                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.91                                     | 0.13  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.68                                     | 0.62  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.38                                     | 0.56  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.15                                     | 0.50  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.07                                    | 0.35  | 0.58                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.00                                     | 0.96  | 1.04                    |                                  |
|                 | SLD87316                     | 05/24/05        | 6                                 | 6.5                |                                  | Actinium-227     | 0.02                                     | 0.08  | 0.14                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.02                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.01                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 5.52                                     | 0.41  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.02                                     | 0.25  | 0.35                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.05                                     | 0.25  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.33                                     | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.40                                     | 0.28  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.08                                     | 0.47  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.31                                     | 0.24  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.03                                     | 0.11  | 0.18                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 0.72                                     | 0.27  | 0.29                    |                                  |
|                 | SLD87313                     | 05/24/05        | 8                                 | 8.5                |                                  | Actinium-227     | -0.13                                    | 0.13  | 0.19                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.00                                     | 0.03  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.01                                    | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 17.40                                    | 1.00  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.15                                     | 0.38  | 0.55                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.35                                     | 0.33  | 0.05                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.92                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.12                                     | 0.49  | 0.24                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.11                                     | 0.49  | 0.28                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.94                                     | 0.45  | 0.13                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.19                                     | 0.19  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.31                                     | 0.54  | 0.44                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|-----------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD87288        | SLD87314                     | 05/24/05        | 9.5                               | 10.0               |                                  | Actinium-227     | 0.00                                     | 0.14  | 0.23                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.01                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.01  | 0.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 17.64                                    | 1.06  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.22                                     | 0.42  | 0.61                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.34                                     | 0.33  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.93                                     | 0.06  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.05                                     | 0.45  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.31                                     | 0.51  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.82                                     | 0.39  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.03                                     | 0.20  | 0.29                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.37                                     | 0.54  | 0.50                    |                                  |
|                 | SLD87315                     | 05/24/05        | 10                                | 10.5               |                                  | Actinium-227     | -0.11                                    | 0.16  | 0.24                    | 0.00                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.04                                     | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 18.29                                    | 1.12  | 0.21                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.37                                     | 0.53  | 0.70                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 1.43                                     | 0.36  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.94                                     | 0.07  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.90                                     | 0.41  | 0.25                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.50                                     | 0.55  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 0.87                                     | 0.40  | 0.11                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.07                                     | 0.19  | 0.32                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 1.49                                     | 0.60  | 0.54                    |                                  |
| SLD87322        | SLD87322                     | 06/16/05        | 0                                 | 0.5                |                                  | Actinium-227     | 0.07                                     | 0.20  | 0.35                    | 0.05                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | 0.13                                     | 0.09  | 0.15                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | -0.02                                    | 0.02  | 0.03                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 13.06                                    | 1.06  | 0.17                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 0.11                                     | 0.65  | 0.98                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.01                                     | 0.51  | 0.08                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 0.95                                     | 0.08  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 0.79                                     | 0.41  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 1.68                                     | 0.62  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.01                                     | 0.46  | 0.12                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | 0.30                                     | 0.36  | 0.50                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 3.89                                     | 1.14  | 1.24                    |                                  |
|                 | SLD87327                     | 06/16/05        | 1                                 | 1.5                |                                  | Actinium-227     | -0.08                                    | 0.44  | 0.74                    | 0.12                             |
|                 |                              |                 |                                   |                    |                                  | Americium-241    | -0.01                                    | 0.20  | 0.31                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Cesium-137       | 0.00                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Potassium-40     | 18.40                                    | 2.13  | 0.63                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Protactinium-231 | 1.20                                     | 1.22  | 2.02                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-226       | 2.93                                     | 0.80  | 0.19                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Radium-228       | 1.39                                     | 0.19  | 0.23                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-228      | 1.04                                     | 0.50  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-230      | 2.78                                     | 0.88  | 0.26                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Thorium-232      | 1.70                                     | 0.65  | 0.30                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-235      | -0.01                                    | 0.59  | 0.96                    |                                  |
|                 |                              |                 |                                   |                    |                                  | Uranium-238      | 2.88                                     | 2.35  | 2.55                    |                                  |

Table C-1  
PSC Metals Vicinity Property (DT-8)  
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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter        | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|------------------|------------------------------------------|-------|-------------------------|----------------------------------|
| SLD87322        | SLD87328                     | 06/16/05        | 1.5                                | 2.0                |                                  | Actinium-227     | -0.23                                    | 0.38  | 0.62                    | 0.06                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | -0.02                                    | 0.20  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.01                                     | 0.04  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 20.86                                    | 2.31  | 0.53                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.36                                    | 1.29  | 1.84                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.79                                     | 0.53  | 0.20                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.32                                     | 0.18  | 0.26                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.10                                     | 0.49  | 0.31                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.81                                     | 0.64  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 0.72                                     | 0.38  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.02                                     | 0.53  | 0.85                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 3.41                                     | 2.54  | 2.37                    |                                  |
|                 | SLD87329                     | 06/16/05        | 2.5                                | 3.0                |                                  | Actinium-227     | 0.00                                     | 0.40  | 0.68                    | 0.06                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.06                                     | 0.17  | 0.29                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | 0.00                                     | 0.05  | 0.07                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 20.07                                    | 2.18  | 0.62                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.53                                    | 1.23  | 1.73                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.73                                     | 0.51  | 0.18                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.31                                     | 0.18  | 0.22                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.97                                     | 0.74  | 0.28                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 2.32                                     | 0.81  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.54                                     | 0.64  | 0.15                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.17                                     | 0.52  | 0.86                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 0.63                                     | 1.54  | 2.68                    |                                  |
|                 | SLD87330                     | 06/16/05        | 3.5                                | 4.0                |                                  | Actinium-227     | 0.06                                     | 0.37  | 0.63                    | 0.02                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.05                                     | 0.17  | 0.27                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.04  | 0.06                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 17.77                                    | 2.02  | 0.62                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | 0.87                                     | 1.03  | 1.69                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.63                                     | 0.49  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.29                                     | 0.16  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.28                                     | 0.50  | 0.21                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.75                                     | 0.60  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.04                                     | 0.44  | 0.11                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | 0.23                                     | 0.48  | 0.80                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.70                                     | 1.43  | 2.59                    |                                  |
|                 | SLD87331                     | 06/16/05        | 4                                  | 4.5                |                                  | Actinium-227     | -0.12                                    | 0.26  | 0.42                    | 0.05                             |
|                 |                              |                 |                                    |                    |                                  | Americium-241    | 0.05                                     | 0.11  | 0.17                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Cesium-137       | -0.01                                    | 0.03  | 0.04                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Potassium-40     | 18.57                                    | 1.49  | 0.35                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Protactinium-231 | -0.78                                    | 0.70  | 1.09                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-226       | 1.79                                     | 0.47  | 0.12                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Radium-228       | 1.39                                     | 0.12  | 0.16                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-228      | 1.09                                     | 0.49  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-230      | 1.83                                     | 0.66  | 0.13                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Thorium-232      | 1.62                                     | 0.62  | 0.24                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-235      | -0.13                                    | 0.33  | 0.53                    |                                  |
|                 |                              |                 |                                    |                    |                                  | Uranium-238      | 1.97                                     | 1.19  | 1.43                    |                                  |

**Table C-1**  
**PSC Metals Vicinity Property (DT-8)**  
**Pre-Design Investigation Radiological Data Results**

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| Sample Location | Sample Identification Number | Collection Date | Start Depth (ft 'bgs) <sup>2</sup> | End Depth (ft bgs) | Thickness of Cover Material (ft) | Parameter | Result <sup>3</sup> (pCi/g) <sup>4</sup> | Error | Detection Limit (pCi/g) | Sum of <sup>5</sup> Ratios Value |
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|-----------|------------------------------------------|-------|-------------------------|----------------------------------|
|-----------------|------------------------------|-----------------|------------------------------------|--------------------|----------------------------------|-----------|------------------------------------------|-------|-------------------------|----------------------------------|

<sup>1</sup> ft - feet

<sup>2</sup> bgs - below ground surface

<sup>3</sup> Analytical data includes background values (i.e., concentrations reflect gross radionuclide values)

<sup>4</sup> pCi/g - Picocuries per gram

<sup>5</sup> Prior to calculating the SOR, background values for each radionuclide were subtracted from their respective gross radionuclide values

Background Values:

|               |            |
|---------------|------------|
| Radium-226 =  | 2.78 pCi/g |
| Radium-228 =  | .95 pCi/g  |
| Thorium-230 = | 1.94 pCi/g |
| Thorium-232 = | 1.09 pCi/g |
| Uranium-238 = | 1.44 pCi/g |

If Detection Limit exceeds Result, ½ of Detection Limit was substituted for Result value in the SOR calculation.

*Samples in italics indicate MDA > Result*



## ***Appendix D***

Laboratory Report for Waste Characterization Samples

**SEVERN  
TRENT**

**SERVICES**

STL St. Louis  
13715 Rider Trail North  
Earth City, MO 63045

Tel 314 298 8566  
Fax 314 298 8757  
www.stl-tnc.com

## ANALYTICAL REPORT

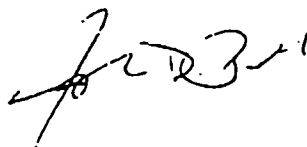
St. Louis FUSRAP

Lot #: FOL070285

Vic Samargian

SAIC  
500 Northwest Plaza  
Suite 1250  
St Ann, MO 63074

SEVERN TRENT LABORATORIES, INC.



John D. Powell  
Project Manager

January 8, 2001

## Case Narrative

LOT NUMBER: F0L070285

This report contains the analytical results for the sample received under chain of custody by STL St. Louis on December 7, 2000. This sample is associated with your St. Louis FUSRAP project.

All applicable quality control procedures met method-specified acceptance criteria except as noted on the following page.

This report is incomplete without the case narrative.

### Observations/Nonconformances

#### Affected Samples:

1: SLD06650

#### Affected Methods:

7.3.3

#### Case Narrative:

Reactive CN LCS had 0% recovery. Confirmed with prep analyst that LCS was positively spiked.

#### Affected Samples:

1: SLD06650

#### Affected Methods:

7470A

#### Case Narrative:

The SOP requires a ICB to be analyzed immediately after the ICV. The correct sequence is ICV,ICB,CRA. Instead the analyst ran ICV, CRA, a non reported QC, ICB. Since this is a deviation from the SOP a nonconformance was initiated

#### Affected Samples:

1: SLD06650

#### Affected Methods:

7470A

#### Case Narrative:

The TCLP procedure requires the samples to be spiked before preservation. Since the initial MS/MSD spikes before preservation were prepped at the wrong level the samples were spiked at the correct level after preservation.

**Affected Samples:**

1: SLD06650

**Affected Methods:**

8081A

**Case Narrative:**

Batch QC for TCLP pesticides consisted of LCS and LCS duplicate.

**Affected Samples:**

1: SLD06650

**Affected Methods:**

8270C

**Case Narrative:**

For organic extraction batch (0349201), the water method blank (DRDX11AA) for TCLP analysis has confirmed low recovery for the surrogates (2-Fluorophenol and Nitrobenzene-d5). It is noted that the extraction-fluid blank (DRDX11AE) had all of its surrogates and internal standards in-control.

**Affected Samples:**

1: SLD06650

**Affected Methods:**

6010B

**Case Narrative:**

The serial dilution for copper and zinc was outside of stated control limits and flagged appropriately.

**Affected Samples:**

1: SLD06650

**Affected Methods:**

8082

**Case Narrative:**

TCMX and DCB were biased high on the primary column CCALs, however, the average %D was less than 15%, which is acceptable per method.

TCMX and DCB were biased high on the confirmation column CCALs, however, this column was not used for quantitation.

**Affected Samples:**

1: SLD06650

**Affected Methods:**

8082

**Case Narrative:**

The sample required a 10 X dilution to bring the analyte response within the calibration range. Subsequently, the surrogate spikes were diluted out and recoveries could not be evaluated.

**Affected Samples:**

1: SLD06650

**Affected Methods:**

8270C

**Case Narrative:**

The surrogate in the blank was not within the QC limits. Since there was a TCLP blank associated with the batch, all other QC criteria was met, the data is reported.

# METHODS SUMMARY

F0L070285

| <u>PARAMETER</u>                                   | <u>ANALYTICAL<br/>METHOD</u> | <u>PREPARATION<br/>METHOD</u> |
|----------------------------------------------------|------------------------------|-------------------------------|
| pH Non-Aqueous                                     | SW846 9045A                  |                               |
| Chlorinated Herbicides by GC                       | SW846 8151A                  | SW846 1311/8150               |
| Inductively Coupled Plasma (ICP) Metals            | SW846 6010B                  | SW846 1311/3010               |
| Mercury in Liquid Waste (Manual Cold-Vapor)        | SW846 7470A                  | SW846 1311/7470               |
| Organochlorine Pesticides                          | SW846 8081A                  | SW846 1311/3510               |
| Paint Filter Test                                  | SW846 9095                   | SW846 9095                    |
| Pensky-Martens Method for Determining Ignitability | SW846 1010                   | SW846 1010                    |
| Percent Moisture                                   | MCAWW 160.3 MOD              | MCAWW 160.3 MOD               |
| PCBs by SW-846 8082                                | SW846 8082                   | SW846 3550                    |
| Reactive Cyanide                                   | SW846 7.3.3                  | SW846 7.3.3                   |
| Reactive Sulfide                                   | SW846 7.3.4                  | SW846 7.3.4                   |
| Semivolatile Organic Compounds by GC/MS            | SW846 8270C                  | SW846 1311/3510               |
| Total Cyanide                                      | SW846 9010A                  | SW846 9010A                   |
| Total Organic Halogens                             | SW846 9020A                  |                               |
| Volatile Organics by GC/MS                         | SW846 8260B                  | SW846 1311/5030               |

## References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",  
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical  
Methods", Third Edition, November 1986 and its updates.

## SAMPLE SUMMARY

F0L070285

| WO #  | SAMPLE# | CLIENT SAMPLE ID | DATE     | TIME  |
|-------|---------|------------------|----------|-------|
| DQ2JX | 001     | SLD06650         | 12/06/00 | 12:44 |

### NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

## SAIC

Client Sample ID: SLD06650

## GC Semivolatiles

Lot-Sample #....: F0L070285-001    Work Order #....: DQ2JX1A2    Matrix.....: SOLID  
Date Sampled....: 12/06/00 12:44    Date Received...: 12/07/00  
Prep Date.....: 12/08/00    Analysis Date...: 12/22/00  
Prep Batch #....: 0343176    Analysis Time...: 01:32  
Dilution Factor: 10  
% Moisture.....: 15    Method.....: SW846 8082

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|------------------|---------------|----------------------------|--------------|
| Aroclor 1016     | ND            | 390                        | ug/kg        |
| Aroclor 1221     | ND            | 390                        | ug/kg        |
| Aroclor 1232     | ND            | 390                        | ug/kg        |
| Aroclor 1242     | ND            | 390                        | ug/kg        |
| Aroclor 1248     | ND            | 390                        | ug/kg        |
| Aroclor 1254     | ND            | 390                        | ug/kg        |
| Aroclor 1260     | 2200          | 390                        | ug/kg        |

| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|----------------------|-----------------------------|----------------------------|
| Tetrachloro-m-xylene | 0.0 DIL                     | (10 - 199)                 |
| Decachlorobiphenyl   | 0.0 DIL                     | (10 - 200)                 |

NOTE (S) :

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.



## SAIC

Client Sample ID: SLD06650

## TCLP GC Semivolatiles

Lot-Sample #...: F0L070285-001    Work Order #...: DQ2JX1AU    Matrix.....: SOLID  
Date Sampled...: 12/06/00 12:44    Date Received...: 12/07/00  
Leach Date.....: 12/11/00    Prep Date.....: 12/18/00    Analysis Date...: 12/20/00  
Leach Batch #...: P034605    Prep Batch #...: 0353407    Analysis Time...: 22:42  
Dilution Factor: 1  
% Moisture.....: 15    Method.....: SW846 8081A

| <u>PARAMETER</u>      | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> |
|-----------------------|---------------|----------------------------|--------------|
| Chlordane (technical) | ND            | 5.0                        | ug/L         |
| Endrin                | ND            | 0.50                       | ug/L         |
| gamma-BHC (Lindane)   | ND            | 0.50                       | ug/L         |
| Heptachlor            | ND            | 0.50                       | ug/L         |
| Heptachlor epoxide    | ND            | 0.50                       | ug/L         |
| Methoxychlor          | ND            | 1.0                        | ug/L         |
| Toxaphene             | ND            | 20                         | ug/L         |

| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|----------------------|-----------------------------|----------------------------|
| Tetrachloro-m-xylene | 74                          | (22 - 138)                 |
| Decachlorobiphenyl   | 94                          | (10 - 134)                 |

NOTE(S) :

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

## SAIC

Client Sample ID: SLD06650

## TCLP GC/MS Volatiles

Lot-Sample #...: F0L070285-001    Work Order #...: DQ2JX1AX    Matrix.....: SOLID  
Date Sampled...: 12/06/00 12:44    Date Received...: 12/07/00  
Leach Date.....: 12/18/00    Prep Date.....: 12/21/00    Analysis Date...: 12/21/00  
Leach Batch #...: P035404    Prep Batch #...: 0356205    Analysis Time...: 08:03  
Dilution Factor: 1  
% Moisture.....: 15    Method.....: SW846 8260B

| PARAMETER            | RESULT | REPORTING<br>LIMIT | UNITS |
|----------------------|--------|--------------------|-------|
| Vinyl chloride       | ND     | 100                | ug/L  |
| 1,1-Dichloroethene   | ND     | 50                 | ug/L  |
| 2-Butanone           | ND     | 200                | ug/L  |
| Chloroform           | ND     | 50                 | ug/L  |
| Carbon tetrachloride | ND     | 50                 | ug/L  |
| 1,2-Dichloroethane   | ND     | 50                 | ug/L  |
| Benzene              | ND     | 50                 | ug/L  |
| Trichloroethene      | ND     | 50                 | ug/L  |
| Tetrachloroethene    | ND     | 50                 | ug/L  |
| Chlorobenzene        | ND     | 50                 | ug/L  |

| SURROGATE             | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|-----------------------|---------------------|--------------------|
| Dibromofluoromethane  | 103                 | (75 - 127)         |
| Toluene-d8            | 94                  | (79 - 117)         |
| 4-Bromofluorobenzene  | 92                  | (60 - 119)         |
| 1,2-Dichloroethane-d4 | 99                  | (71 - 133)         |

NOTE(S) :

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

## SAIC

Client Sample ID: SLD06650

## TCLP GC/MS Semivolatiles

Lot-Sample #....: F0L070285-001    Work Order #....: DQ2JX1AW    Matrix.....: SOLID  
 Date Sampled....: 12/06/00 12:44    Date Received...: 12/07/00  
 Leach Date.....: 12/12/00    Prep Date.....: 12/14/00    Analysis Date...: 12/19/00  
 Leach Batch #...: P034605    Prep Batch #....: 0349201    Analysis Time...: 09:56  
 Dilution Factor: 1  
 % Moisture.....: 15    Method.....: SW846 8270C

| PARAMETER              | RESULT | REPORTING<br>LIMIT | UNITS |
|------------------------|--------|--------------------|-------|
| Pyridine               | ND     | 100                | ug/L  |
| 1,4-Dichlorobenzene    | ND     | 50                 | ug/L  |
| 2-Methylphenol         | ND     | 50                 | ug/L  |
| 4-Methylphenol         | ND     | 50                 | ug/L  |
| Hexachloroethane       | ND     | 50                 | ug/L  |
| Nitrobenzene           | ND     | 50                 | ug/L  |
| Hexachlorobutadiene    | ND     | 50                 | ug/L  |
| 2,4,6-Trichloro-phenol | ND     | 50                 | ug/L  |
| 2,4,5-Trichloro-phenol | ND     | 50                 | ug/L  |
| 2,4-Dinitrotoluene     | ND     | 50                 | ug/L  |
| Hexachlorobenzene      | ND     | 50                 | ug/L  |
| Pentachlorophenol      | ND     | 250                | ug/L  |

| SURROGATE            | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|----------------------|---------------------|--------------------|
| 2-Fluorophenol       | 50                  | (10 - 90 )         |
| Phenol-d5            | 41                  | (10 - 91 )         |
| Nitrobenzene-d5      | 76                  | (32 - 113)         |
| 2-Fluorobiphenyl     | 79                  | (32 - 110)         |
| Terphenyl-d14        | 86                  | (22 - 106)         |
| 2,4,6-Tribromophenol | 82                  | (22 - 133)         |

NOTE(S) :

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

SAIC

Client Sample ID: SLD06650

TCLP GC Semivolatiles

Lot-Sample #...: F0L070285-001 Work Order #...: DQ2JX1AV Matrix.....: SOLID  
 Date Sampled...: 12/06/00 12:44 Date Received...: 12/07/00  
 Leach Date.....: 12/11/00 Prep Date.....: 12/17/00 Analysis Date...: 12/20/00  
 Leach Batch #...: P034605 Prep Batch #...: 0354435 Analysis Time...: 11:01  
 Dilution Factor: 1  
 % Moisture.....: 15 Method.....: SW846 8151A

| PARAMETER         | RESULT | REPORTING<br>LIMIT | UNITS |
|-------------------|--------|--------------------|-------|
| 2,4-D             | ND     | 40                 | ug/L  |
| 2,4,5-TP (Silvex) | ND     | 10                 | ug/L  |

| SURROGATE                     | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|-------------------------------|---------------------|--------------------|
| 2,4-Dichlorophenylacetic acid | 91                  | (34 - 156)         |

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

## SAIC

Client Sample ID: SLD06650

## General Chemistry

Lot-Sample #...: F0L070285-001    Work Order #...: DQ2JX    Matrix.....: SOLID  
Date Sampled...: 12/06/00 12:44    Date Received...: 12/07/00  
% Moisture.....: 15

| PARAMETER         | RESULT | RL    | UNITS              | METHOD                  | PREPARATION-<br>ANALYSIS DATE | PREP<br>BATCH # |
|-------------------|--------|-------|--------------------|-------------------------|-------------------------------|-----------------|
| pH (solid)        | 9.3    |       | No Units           | SW846 9045A             | 12/28/00                      | 0363473         |
|                   |        |       | Dilution Factor: 1 | Analysis Time...: 00:00 |                               |                 |
| Flashpoint        | >60.0  | 25.0  | deg C              | SW846 1010              | 12/15/00                      | 0350253         |
|                   |        |       | Dilution Factor: 1 | Analysis Time...: 00:00 |                               |                 |
| Paint Filter Test | PAS,S  |       | No Units           | SW846, 9095             | 12/18/00                      | 0353451         |
|                   |        |       | Dilution Factor: 1 | Analysis Time...: 00:00 |                               |                 |
| Percent Moisture  | 14.9 % | 0.10  | %                  | MCAWW 160.3 MOD         | 12/08/00                      | 0343381         |
|                   |        |       | Dilution Factor: 1 | Analysis Time...: 08:43 |                               |                 |
| Reactive Cyanide  | ND     | 0.029 | mg/kg              | SW846 7.3.3             | 12/11/00                      | 0346370         |
|                   |        |       | Dilution Factor: 1 | Analysis Time...: 12:00 |                               |                 |
| Reactive Sulfide  | ND     | 5.2   | mg/kg              | SW846 7.3.4             | 12/15/00                      | 0353493         |
|                   |        |       | Dilution Factor: 1 | Analysis Time...: 00:00 |                               |                 |
| Total Cyanide     | 0.36   | 0.29  | mg/kg              | SW846 9010A             | 12/18/00                      | 0353482         |
|                   |        |       | Dilution Factor: 1 | Analysis Time...: 12:00 |                               |                 |
| TOX               | 65.3   | 58.7  | mg/kg              | SW846 9020A             | 12/21/00                      | 0361184         |
|                   |        |       | Dilution Factor: 1 | Analysis Time...: 00:00 |                               |                 |

NOTE (S) :

RL Reporting Limit

S The result was determined using the Method of Standard Additions (MSA).

Results and reporting limits have been adjusted for dry weight.

## SAIC

Client Sample ID: SLD06650

## TCLP Metals

Lot-Sample #...: F0L070285-001

Matrix.....: SOLID

Date Sampled...: 12/06/00 12:44 Date Received...: 12/07/00

Leach Date.....: 12/11/00

Leach Batch #...: P034605

| PARAMETER                | RESULT | REPORTING<br>LIMIT   | UNITS | METHOD                  | PREPARATION-<br>ANALYSIS DATE | WORK<br>ORDER # |
|--------------------------|--------|----------------------|-------|-------------------------|-------------------------------|-----------------|
| Prep Batch #...: 0349167 |        |                      |       |                         |                               |                 |
| Mercury                  | ND B   | 1.0                  | ug/L  | SW846 7470A             | 12/14-12/15/00                | DQ2JX1AM        |
|                          |        | Dilution Factor: 5   |       | Analysis Time...: 16:18 |                               |                 |
| Prep Batch #...: 0349269 |        |                      |       |                         |                               |                 |
| Arsenic                  | ND     | 750                  | ug/L  | SW846 6010B             | 12/14-12/15/00                | DQ2JX1AC        |
|                          |        | Dilution Factor: 2.5 |       | Analysis Time...: 13:22 |                               |                 |
| Barium                   | 955    | 500                  | ug/L  | SW846 6010B             | 12/14-12/15/00                | DQ2JX1AD        |
|                          |        | Dilution Factor: 2.5 |       | Analysis Time...: 13:22 |                               |                 |
| Cadmium                  | 273    | 125                  | ug/L  | SW846 6010B             | 12/14-12/15/00                | DQ2JX1AE        |
|                          |        | Dilution Factor: 2.5 |       | Analysis Time...: 13:22 |                               |                 |
| Chromium                 | 2.3 B  | 250                  | ug/L  | SW846 6010B             | 12/14-12/15/00                | DQ2JX1AF        |
|                          |        | Dilution Factor: 2.5 |       | Analysis Time...: 13:22 |                               |                 |
| Lead                     | 101 B  | 250                  | ug/L  | SW846 6010B             | 12/14-12/15/00                | DQ2JX1AG        |
|                          |        | Dilution Factor: 2.5 |       | Analysis Time...: 13:22 |                               |                 |
| Silver                   | ND     | 250                  | ug/L  | SW846 6010B             | 12/14-12/15/00                | DQ2JX1AH        |
|                          |        | Dilution Factor: 2.5 |       | Analysis Time...: 13:22 |                               |                 |
| Selenium                 | 6.5 B  | 125                  | ug/L  | SW846 6010B             | 12/14-12/15/00                | DQ2JX1AJ        |
|                          |        | Dilution Factor: 2.5 |       | Analysis Time...: 13:22 |                               |                 |
| Copper                   | 254 BE | 625                  | ug/L  | SW846 6010B             | 12/14-12/15/00                | DQ2JX1AK        |
|                          |        | Dilution Factor: 2.5 |       | Analysis Time...: 13:22 |                               |                 |
| Zinc                     | 2960 E | 500                  | ug/L  | SW846 6010B             | 12/14-12/15/00                | DQ2JX1AL        |
|                          |        | Dilution Factor: 2.5 |       | Analysis Time...: 13:22 |                               |                 |

NOTE(S) :

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

B Estimated result. Result is less than RL.

E Matrix interference.

# METHOD BLANK REPORT

## GC Semivolatiles

Client Lot #...: F0L070285  
MB Lot-Sample #: F0L080000-176

Work Order #...: DQ3NT1AA

Matrix.....: SOLID

Analysis Date...: 12/11/00  
Dilution Factor: 1

Prep Date.....: 12/08/00

Analysis Time...: 07:22

Prep Batch #...: 0343176

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|------------------|---------------|----------------------------------|--------------|---------------|
| Aroclor 1016     | ND            | 33                               | ug/kg        | SW846 8082    |
| Aroclor 1221     | ND            | 33                               | ug/kg        | SW846 8082    |
| Aroclor 1232     | ND            | 33                               | ug/kg        | SW846 8082    |
| Aroclor 1242     | ND            | 33                               | ug/kg        | SW846 8082    |
| Aroclor 1248     | ND            | 33                               | ug/kg        | SW846 8082    |
| Aroclor 1254     | ND            | 33                               | ug/kg        | SW846 8082    |
| Aroclor 1260     | ND            | 33                               | ug/kg        | SW846 8082    |

| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |
|----------------------|-----------------------------------|----------------------------------|
| Tetrachloro-m-xylene | 99                                | (10 - 199)                       |
| Decachlorobiphenyl   | 113                               | (10 - 200)                       |

### NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results

# METHOD BLANK REPORT

## TCLP GC/MS Volatiles

Client Lot #...: F0L070285  
 MB Lot-Sample #: F0L110000-242  
 Leach Date.....: 12/18/00  
 Leach Batch #...: P034601  
 Dilution Factor: 1

Work Order #...: DQ7M01AA  
 Prep Date.....: 12/21/00  
 Prep Batch #...: 0356205

Matrix.....: SOLID  
 Analysis Date...: 12/21/00  
 Analysis Time...: 06:17

| PARAMETER            | RESULT | REPORTING |       | METHOD      |
|----------------------|--------|-----------|-------|-------------|
|                      |        | LIMIT     | UNITS |             |
| Vinyl chloride       | ND     | 100       | ug/L  | SW846 8260B |
| 1,1-Dichloroethene   | ND     | 50        | ug/L  | SW846 8260B |
| 2-Butanone           | ND     | 200       | ug/L  | SW846 8260B |
| Chloroform           | ND     | 50        | ug/L  | SW846 8260B |
| Carbon tetrachloride | ND     | 50        | ug/L  | SW846 8260B |
| 1,2-Dichloroethane   | ND     | 50        | ug/L  | SW846 8260B |
| Benzene              | ND     | 50        | ug/L  | SW846 8260B |
| Trichloroethene      | ND     | 50        | ug/L  | SW846 8260B |
| Tetrachloroethene    | ND     | 50        | ug/L  | SW846 8260B |
| Chlorobenzene        | ND     | 50        | ug/L  | SW846 8260B |

| SURROGATE             | PERCENT  | RECOVERY   |
|-----------------------|----------|------------|
|                       | RECOVERY | LIMITS     |
| Dibromofluoromethane  | 105      | (75 - 127) |
| Toluene-d8            | 94       | (79 - 117) |
| 4-Bromofluorobenzene  | 91       | (60 - 119) |
| 1,2-Dichloroethane-d4 | 100      | (71 - 133) |

### NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.



# METHOD BLANK REPORT

## GC/MS Semivolatiles

Client Lot #...: F0L070285  
MB Lot-Sample #: F0L140000-201

Work Order #...: DRDX11AA

Matrix.....: SOLID

Analysis Date...: 12/19/00

Prep Date.....: 12/14/00

Analysis Time...: 07:06

Dilution Factor: 1

Prep Batch #...: 0349201

| PARAMETER              | RESULT   | REPORTING  |          |             |
|------------------------|----------|------------|----------|-------------|
|                        |          | LIMIT      | UNITS    | METHOD      |
| Pyridine               | ND       | 100        | ug/L     | SW846 8270C |
| 1,4-Dichlorobenzene    | ND       | 50         | ug/L     | SW846 8270C |
| 2-Methylphenol         | ND       | 50         | ug/L     | SW846 8270C |
| 4-Methylphenol         | ND       | 50         | ug/L     | SW846 8270C |
| Hexachloroethane       | ND       | 50         | ug/L     | SW846 8270C |
| Nitrobenzene           | ND       | 50         | ug/L     | SW846 8270C |
| Hexachlorobutadiene    | ND       | 50         | ug/L     | SW846 8270C |
| 2,4,6-Trichloro-phenol | ND       | 50         | ug/L     | SW846 8270C |
| 2,4,5-Trichloro-phenol | ND       | 50         | ug/L     | SW846 8270C |
| 2,4-Dinitrotoluene     | ND       | 50         | ug/L     | SW846 8270C |
| Hexachlorobenzene      | ND       | 50         | ug/L     | SW846 8270C |
| Pentachlorophenol      | ND       | 250        | ug/L     | SW846 8270C |
|                        |          | PERCENT    | RECOVERY |             |
| SURROGATE              | RECOVERY | LIMITS     |          |             |
| 2-Fluorophenol         | 1.9 *    | (10 - 90)  |          |             |
| Phenol-d5              | 14       | (10 - 91)  |          |             |
| Nitrobenzene-d5        | 21 *     | (32 - 113) |          |             |
| 2-Fluorobiphenyl       | 57       | (32 - 110) |          |             |
| Terphenyl-d14          | 85       | (22 - 106) |          |             |
| 2,4,6-Tribromophenol   | 65       | (22 - 133) |          |             |

### NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

- Surrogate recovery is outside stated control limits.

# METHOD BLANK REPORT

## GC/MS Semivolatiles

Client Lot #...: F0L070285  
 MB Lot-Sample #: F0L140000-201  
 Analysis Date...: 12/19/00  
 Dilution Factor: 1

Work Order #...: DRDX11AE  
 Prep Date.....: 12/14/00  
 Prep Batch #...: 0349201

Matrix.....: SOLID  
 Analysis Time...: 07:40

| PARAMETER              | RESULT | REPORTING<br>LIMIT | UNITS | METHOD      |
|------------------------|--------|--------------------|-------|-------------|
| Pyridine               | ND     | 100                | ug/L  | SW846 8270C |
| 1,4-Dichlorobenzene    | ND     | 50                 | ug/L  | SW846 8270C |
| 2-Methylphenol         | ND     | 50                 | ug/L  | SW846 8270C |
| 4-Methylphenol         | ND     | 50                 | ug/L  | SW846 8270C |
| Hexachloroethane       | ND     | 50                 | ug/L  | SW846 8270C |
| Nitrobenzene           | ND     | 50                 | ug/L  | SW846 8270C |
| Hexachlorobutadiene    | ND     | 50                 | ug/L  | SW846 8270C |
| 2,4,6-Trichloro-phenol | ND     | 50                 | ug/L  | SW846 8270C |
| 2,4,5-Trichloro-phenol | ND     | 50                 | ug/L  | SW846 8270C |
| 2,4-Dinitrotoluene     | ND     | 50                 | ug/L  | SW846 8270C |
| Hexachlorobenzene      | ND     | 50                 | ug/L  | SW846 8270C |
| Pentachlorophenol      | ND     | 250                | ug/L  | SW846 8270C |

| SURROGATE            | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|----------------------|---------------------|--------------------|
| 2-Fluorophenol       | 82                  | (10 - 90)          |
| Phenol-d5            | 84                  | (10 - 91)          |
| Nitrobenzene-d5      | 83                  | (32 - 113)         |
| 2-Fluorobiphenyl     | 99                  | (32 - 110)         |
| Terphenyl-d14        | 89                  | (22 - 106)         |
| 2,4,6-Tribromophenol | 82                  | (22 - 133)         |

### NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

# METHOD BLANK REPORT

## GC Semivolatiles

Client Lot #....: F0L070285  
 MB Lot-Sample #: F0L180000-407

Work Order #....: DRLRP1AA

Matrix.....: SOLID

Analysis Date...: 12/20/00  
 Dilution Factor: 1

Prep Date.....: 12/18/00

Analysis Time...: 20:40

Prep Batch #....: 0353407

| <u>PARAMETER</u>      | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|-----------------------|---------------|----------------------------------|--------------|---------------|
| Chlordane (technical) | ND            | 5.0                              | ug/L         | SW846 8081A   |
| Endrin                | ND            | 0.50                             | ug/L         | SW846 8081A   |
| gamma-BHC (Lindane)   | ND            | 0.50                             | ug/L         | SW846 8081A   |
| Heptachlor            | ND            | 0.50                             | ug/L         | SW846 8081A   |
| Heptachlor epoxide    | ND            | 0.50                             | ug/L         | SW846 8081A   |
| Methoxychlor          | ND            | 1.0                              | ug/L         | SW846 8081A   |
| Toxaphene             | ND            | 20                               | ug/L         | SW846 8081A   |

| <u>SURROGATE</u>     | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |
|----------------------|-----------------------------------|----------------------------------|
| Tetrachloro-m-xylene | 71                                | (22 - 138)                       |
| Decachlorobiphenyl   | 74                                | (10 - 134)                       |

### NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

# METHOD BLANK REPORT

## TCLP GC/MS Volatiles

Client Lot #...: F0L070285      Work Order #...: DRMNQ1AA      Matrix.....: SOLID  
 MB Lot-Sample #: F0L190000-185  
 Leach Date.....: 12/18/00      Prep Date.....: 12/21/00      Analysis Date...: 12/21/00  
 Leach Batch #...: P035404      Prep Batch #...: 0356205      Analysis Time...: 02:45  
 Dilution Factor: 1

| PARAMETER            | RESULT | REPORTING<br>LIMIT | UNITS | METHOD      |
|----------------------|--------|--------------------|-------|-------------|
| Vinyl chloride       | ND     | 100                | ug/L  | SW846 8260B |
| 1,1-Dichloroethene   | ND     | 50                 | ug/L  | SW846 8260B |
| 2-Butanone           | ND     | 200                | ug/L  | SW846 8260B |
| Chloroform           | ND     | 50                 | ug/L  | SW846 8260B |
| Carbon tetrachloride | ND     | 50                 | ug/L  | SW846 8260B |
| 1,2-Dichloroethane   | ND     | 50                 | ug/L  | SW846 8260B |
| Benzene              | ND     | 50                 | ug/L  | SW846 8260B |
| Trichloroethene      | ND     | 50                 | ug/L  | SW846 8260B |
| Tetrachloroethene    | ND     | 50                 | ug/L  | SW846 8260B |
| Chlorobenzene        | ND     | 50                 | ug/L  | SW846 8260B |

| PARAMETER             | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|-----------------------|---------------------|--------------------|
| Bromofluoromethane    | 100                 | (75 - 127)         |
| Toluene-d8            | 90                  | (79 - 117)         |
| 4-Bromofluorobenzene  | 90                  | (60 - 119)         |
| 1,2-Dichloroethane-d4 | 95                  | (71 - 133)         |

### NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

# METHOD BLANK REPORT

## GC Semivolatiles

Client Lot #....: F0L070285  
 MB Lot-Sample #: F0L190000-435

Work Order #....: DRPG01AA

Matrix.....: SOLID

Analysis Date...: 12/20/00  
 Dilution Factor: 1

Prep Date.....: 12/17/00

Analysis Time...: 09:44

Prep Batch #....: 0354435

| <u>PARAMETER</u>  | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|-------------------|---------------|----------------------------------|--------------|---------------|
| 2,4-D             | ND            | 40                               | ug/L         | SW846 8151A   |
| 2,4,5-TP (Silvex) | ND            | 10                               | ug/L         | SW846 8151A   |

| <u>SURROGATE</u>              | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |
|-------------------------------|-----------------------------------|----------------------------------|
| 2,4-Dichlorophenylacetic acid | 93                                | (34 - 156)                       |

### NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

# METHOD BLANK REPORT

## GC/MS Volatiles

Client Lot #...: F0L070285  
MB Lot-Sample #: F0L210000-205

Work Order #...: DRTL81AA

Matrix.....: SOLID

Analysis Date...: 12/21/00  
Dilution Factor: 1

Prep Date.....: 12/21/00

Analysis Time...: 00:59

Prep Batch #...: 0356205

| PARAMETER            | RESULT | REPORTING<br>LIMIT | UNITS | METHOD      |
|----------------------|--------|--------------------|-------|-------------|
| Vinyl chloride       | ND     | 100                | ug/L  | SW846 8260B |
| 1,1-Dichloroethene   | ND     | 50                 | ug/L  | SW846 8260B |
| 2-Butanone           | ND     | 200                | ug/L  | SW846 8260B |
| Chloroform           | ND     | 50                 | ug/L  | SW846 8260B |
| Carbon tetrachloride | ND     | 50                 | ug/L  | SW846 8260B |
| 1,2-Dichloroethane   | ND     | 50                 | ug/L  | SW846 8260B |
| Benzene              | ND     | 50                 | ug/L  | SW846 8260B |
| Trichloroethene      | ND     | 50                 | ug/L  | SW846 8260B |
| Tetrachloroethene    | ND     | 50                 | ug/L  | SW846 8260B |
| Chlorobenzene        | ND     | 50                 | ug/L  | SW846 8260B |

| SURROGATE             | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|-----------------------|---------------------|--------------------|
| Dibromofluoromethane  | 92                  | (75 - 127)         |
| Toluene-d8            | 88                  | (79 - 117)         |
| 4-Bromofluorobenzene  | 90                  | (60 - 119)         |
| 1,2-Dichloroethane-d4 | 91                  | (71 - 133)         |

### NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results

# METHOD BLANK REPORT

## General Chemistry

Client Lot #....: F0L070285

Matrix.....: SOLID

| PARAMETER        | RESULT | REPORTING<br>LIMIT                            | UNITS       | METHOD                                        | PREPARATION-<br>ANALYSIS DATE | PREP<br>BATCH # |
|------------------|--------|-----------------------------------------------|-------------|-----------------------------------------------|-------------------------------|-----------------|
| pH (solid)       | 5.8    | Work Order #: DR34R1AA                        | No Units    | MB Lot-Sample #: F0L280000-473<br>SW846 9045A | 12/28/00                      | 0363473         |
|                  |        | Dilution Factor: 1<br>Analysis Time...: 00:00 |             |                                               |                               |                 |
| Reactive Cyanide | ND     | Work Order #: DQ7291AA                        | 0.025 mg/kg | MB Lot-Sample #: F0L110000-370<br>SW846 7.3.3 | 12/11/00                      | 0346370         |
|                  |        | Dilution Factor: 1<br>Analysis Time...: 12:00 |             |                                               |                               |                 |
| Reactive Sulfide | ND     | Work Order #: DRLJH1AA                        | 4.4 mg/kg   | MB Lot-Sample #: F0L180000-493<br>SW846 7.3.4 | 12/15/00                      | 0353493         |
|                  |        | Dilution Factor: 1<br>Analysis Time...: 00:00 |             |                                               |                               |                 |
| Total Cyanide    | ND     | Work Order #: DRL2F1AA                        | 0.25 mg/kg  | MB Lot-Sample #: F0L180000-482<br>SW846 9010A | 12/18/00                      | 0353482         |
|                  |        | Dilution Factor: 1<br>Analysis Time...: 12:00 |             |                                               |                               |                 |
| TOX              | ND     | Work Order #: DR08M1AA                        | 50.0 mg/kg  | MB Lot-Sample #: F0L260000-184<br>SW846 9020A | 12/21/00                      | 0361184         |
|                  |        | Dilution Factor: 1<br>Analysis Time...: 06:30 |             |                                               |                               |                 |

### NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

# METHOD BLANK REPORT

## TCLP Metals

Client Lot #...: F0L070285

Matrix.....: SOLID

| PARAMETER                                                                                                      | RESULT | REPORTING<br>LIMIT | UNITS | METHOD      | PREPARATION-<br>ANALYSIS DATE | WORK<br>ORDER # |
|----------------------------------------------------------------------------------------------------------------|--------|--------------------|-------|-------------|-------------------------------|-----------------|
| MB Lot-Sample #: F0L110000-380 Prep Batch #...: 0349269<br>Leach Date.....: 12/11/00 Leach Batch #...: P034605 |        |                    |       |             |                               |                 |
| Arsenic                                                                                                        | ND     | 750                | ug/L  | SW846 6010B | 12/14-12/15/00                | DQ73Q1AA        |
| Dilution Factor: 2.5<br>Analysis Time...: 13:13                                                                |        |                    |       |             |                               |                 |
| Barium                                                                                                         | ND B   | 500                | ug/L  | SW846 6010B | 12/14-12/15/00                | DQ73Q1AC        |
| Dilution Factor: 2.5<br>Analysis Time...: 13:13                                                                |        |                    |       |             |                               |                 |
| ***CadmiumINVALID DATA ON FOLLOWING25LINE ug/L***                                                              |        |                    |       |             |                               |                 |
| Dilution Factor: 2.5<br>Analysis Time...: 13:13                                                                |        |                    |       | SW846 6010B | 12/14-12/15/00                | DQ73Q1AD        |
| ***ChromiumINVALID DATA ON FOLLOWING50LINE ug/L***                                                             |        |                    |       |             |                               |                 |
| Dilution Factor: 2.5<br>Analysis Time...: 13:13                                                                |        |                    |       | SW846 6010B | 12/14-12/15/00                | DQ73Q1AE        |
| Lead                                                                                                           | 6.6 B  | 250                | ug/L  | SW846 6010B | 12/14-12/15/00                | DQ73Q1AF        |
| Dilution Factor: 2.5<br>Analysis Time...: 13:13                                                                |        |                    |       |             |                               |                 |
| ***SilverINVALID DATA ON FOLLOWING50LINE ug/L***                                                               |        |                    |       |             |                               |                 |
| Dilution Factor: 2.5<br>Analysis Time...: 13:13                                                                |        |                    |       | SW846 6010B | 12/14-12/15/00                | DQ73Q1AG        |
| Selenium                                                                                                       | 7.2 B  | 625                | ug/L  | SW846 6010B | 12/14-12/15/00                | DQ73Q1AH        |
| Dilution Factor: 2.5<br>Analysis Time...: 13:13                                                                |        |                    |       |             |                               |                 |
| ***CopperINVALID DATA ON FOLLOWING625LINE ug/L***                                                              |        |                    |       |             |                               |                 |
| Dilution Factor: 2.5<br>Analysis Time...: 13:13                                                                |        |                    |       | SW846 6010B | 12/14-12/15/00                | DQ73Q1AJ        |
| ***Zinc INVALID DATA ON FOLLOWING600LINE ug/L***                                                               |        |                    |       |             |                               |                 |
| Dilution Factor: 2.5<br>Analysis Time...: 13:13                                                                |        |                    |       | SW846 6010B | 12/14-12/15/00                | DQ73Q1AK        |

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# METHOD BLANK REPORT

## TCLP Metals

Client Lot #...: F0L070285

Matrix.....: SOLID

| PARAMETER        | RESULT        | REPORTING<br>LIMIT | UNITS   | METHOD      | PREPARATION-<br>ANALYSIS DATE | WORK<br>ORDER # |
|------------------|---------------|--------------------|---------|-------------|-------------------------------|-----------------|
| MB Lot-Sample #: | F0L110000-380 | Prep Batch #...    | 0349167 |             |                               |                 |
| Leach Date.....: | 12/11/00      | Leach Batch #...   | P034605 |             |                               |                 |
| Mercury          | ND B          | 1                  | ug/L    | SW846 7470A | 12/14-12/15/00                | DQ73Q1AL        |
|                  |               | Dilution Factor:   | 5       |             |                               |                 |
|                  |               | Analysis Time...   | 16:11   |             |                               |                 |

### NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC/MS Semivolatiles

Client Lot #....: F0L070285      Work Order #....: DRDX11AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: F0L140000-201      DRDX11AD-LCSD  
 Prep Date.....: 12/14/00      Analysis Date...: 12/19/00  
 Prep Batch #....: 0349201      Analysis Time...: 08:14  
 Dilution Factor: 1

| PARAMETER              | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS | RPD | RPD<br>LIMITS | METHOD      |
|------------------------|---------------------|--------------------|-----|---------------|-------------|
| Pyridine               | 35                  | (10 - 88)          |     |               | SW846 8270C |
|                        | 29                  | (10 - 88)          | 18  | (0-40)        | SW846 8270C |
| 1,4-Dichlorobenzene    | 67                  | (19 - 102)         |     |               | SW846 8270C |
|                        | 62                  | (19 - 102)         | 8.7 | (0-40)        | SW846 8270C |
| 2-Methylphenol         | 71                  | (17 - 114)         |     |               | SW846 8270C |
|                        | 60                  | (17 - 114)         | 18  | (0-40)        | SW846 8270C |
| 4-Methylphenol         | 65                  | (14 - 104)         |     |               | SW846 8270C |
|                        | 57                  | (14 - 104)         | 13  | (0-40)        | SW846 8270C |
| Hexachloroethane       | 65                  | (10 - 100)         |     |               | SW846 8270C |
|                        | 60                  | (10 - 100)         | 8.2 | (0-40)        | SW846 8270C |
| Nitrobenzene           | 72                  | (37 - 112)         |     |               | SW846 8270C |
|                        | 66                  | (37 - 112)         | 8.5 | (0-40)        | SW846 8270C |
| Hexachlorobutadiene    | 72                  | (10 - 102)         |     |               | SW846 8270C |
|                        | 71                  | (10 - 102)         | 2.1 | (0-40)        | SW846 8270C |
| 2,4,6-Trichloro-phenol | 80                  | (29 - 115)         |     |               | SW846 8270C |
|                        | 73                  | (29 - 115)         | 9.4 | (0-40)        | SW846 8270C |
| 2,4,5-Trichloro-phenol | 76                  | (29 - 120)         |     |               | SW846 8270C |
|                        | 71                  | (29 - 120)         | 6.4 | (0-40)        | SW846 8270C |
| 2,4-Dinitrotoluene     | 72                  | (36 - 117)         |     |               | SW846 8270C |
|                        | 69                  | (36 - 117)         | 5.4 | (0-40)        | SW846 8270C |
| Hexachlorobenzene      | 61                  | (37 - 127)         |     |               | SW846 8270C |
|                        | 53                  | (37 - 127)         | 13  | (0-40)        | SW846 8270C |
| Pentachlorophenol      | 28 J                | (10 - 124)         |     |               | SW846 8270C |
|                        | 28 J                | (10 - 124)         | 1.6 | (0-40)        | SW846 8270C |

| SURROGATE        | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|------------------|---------------------|--------------------|
| 2-Fluorophenol   | 54                  | (10 - 90)          |
|                  | 47                  | (10 - 90)          |
| Phenol-d5        | 45                  | (10 - 91)          |
|                  | 38                  | (10 - 91)          |
| Nitrobenzene-d5  | 73                  | (32 - 113)         |
|                  | 67                  | (32 - 113)         |
| 2-Fluorobiphenyl | 84                  | (32 - 110)         |
|                  | 76                  | (32 - 110)         |
| Terphenyl-d14    | 104                 | (22 - 106)         |
|                  | 101                 | (22 - 106)         |

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: F0L070285      Work Order #...: DRDX11AC-LCS      Matrix.....: SOLID  
LCS Lot-Sample#: F0L140000-201      DRDX11AD-LCSD

| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|----------------------|-----------------------------|----------------------------|
| 2,4,6-Tribromophenol | 91                          | (22 - 133)                 |
|                      | 82                          | (22 - 133)                 |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

1 Estimated result. Result is less than RL.

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC Semivolatiles

Client Lot #...: F0L070285      Work Order #...: DRLRP1AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: F0L180000-407      DRLRP1AD-LCSD  
 Prep Date.....: 12/18/00      Analysis Date...: 12/20/00  
 Prep Batch #...: 0353407      Analysis Time...: 21:21  
 Dilution Factor: 1

| <u>PARAMETER</u>    | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> | <u>RPD</u> | <u>RPD<br/>LIMITS</u> | <u>METHOD</u> |
|---------------------|-----------------------------|----------------------------|------------|-----------------------|---------------|
| Endrin              | 68                          | (44 - 162)                 |            |                       | SW846 8081A   |
|                     | 65                          | (44 - 162)                 | 3.3        | (0-20)                | SW846 8081A   |
| gamma-BHC (Lindane) | 77                          | (46 - 166)                 |            |                       | SW846 8081A   |
|                     | 74                          | (46 - 166)                 | 3.3        | (0-20)                | SW846 8081A   |
| Heptachlor          | 69                          | (41 - 136)                 |            |                       | SW846 8081A   |
|                     | 66                          | (41 - 136)                 | 3.8        | (0-20)                | SW846 8081A   |
| Heptachlor epoxide  | 71                          | (44 - 147)                 |            |                       | SW846 8081A   |
|                     | 69                          | (44 - 147)                 | 3.1        | (0-20)                | SW846 8081A   |
| Methoxychlor        | 81                          | (50 - 148)                 |            |                       | SW846 8081A   |
|                     | 75                          | (50 - 148)                 | 7.1        | (0-20)                | SW846 8081A   |

| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|----------------------|-----------------------------|----------------------------|
| Tetrachloro-m-xylene | 74                          | (22 - 138)                 |
|                      | 70                          | (22 - 138)                 |
| Decachlorobiphenyl   | 63                          | (10 - 134)                 |
|                      | 69                          | (10 - 134)                 |

### NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC Semivolatiles

Client Lot #...: F0L070285      Work Order #...: DRPG01AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: F0L190000-435      DRPG01AD-LCSD  
 Prep Date.....: 12/17/00      Analysis Date...: 12/20/00  
 Prep Batch #...: 0354435      Analysis Time...: 10:09  
 Dilution Factor: 1

| <u>PARAMETER</u>                 | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u>  | <u>RPD</u> | <u>RPD<br/>LIMITS</u>      | <u>METHOD</u> |
|----------------------------------|-----------------------------|-----------------------------|------------|----------------------------|---------------|
| 2,4-D                            | 93                          | (62 - 136)                  |            |                            | SW846 8151A   |
|                                  | 92                          | (62 - 136)                  | 0.54       | (0-40)                     | SW846 8151A   |
| 2,4,5-TP (Silvex)                | 104                         | (67 - 160)                  |            |                            | SW846 8151A   |
|                                  | 106                         | (67 - 160)                  | 2.2        | (0-40)                     | SW846 8151A   |
| <u>SURROGATE</u>                 |                             | <u>PERCENT<br/>RECOVERY</u> |            | <u>RECOVERY<br/>LIMITS</u> |               |
| 2,4-Dichlorophenylacetic<br>acid |                             | 101                         |            | (34 - 156)                 |               |
|                                  |                             | 97                          |            | (34 - 156)                 |               |

### NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

bold print denotes control parameters

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC/MS Volatiles

Client Lot #....: F0L070285      Work Order #....: DRTL81AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: F0L210000-205      DRTL81AD-LCSD  
 Prep Date.....: 12/21/00      Analysis Date...: 12/21/00  
 Prep Batch #....: 0356205      Analysis Time...: 01:35  
 Dilution Factor: 1

| PARAMETER            | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS | RPD  | RPD<br>LIMITS | METHOD      |
|----------------------|---------------------|--------------------|------|---------------|-------------|
| Vinyl chloride       | 35                  | (17 - 169)         |      |               | SW846 8260B |
|                      | 32                  | (17 - 169)         | 10   | (0-40)        | SW846 8260B |
| 1,1-Dichloroethene   | 79                  | (46 - 161)         |      |               | SW846 8260B |
|                      | 57                  | (46 - 161)         | 33   | (0-40)        | SW846 8260B |
| 2-Butanone           | 146                 | (39 - 172)         |      |               | SW846 8260B |
|                      | 132                 | (39 - 172)         | 11   | (0-40)        | SW846 8260B |
| Chloroform           | 99                  | (64 - 141)         |      |               | SW846 8260B |
|                      | 99                  | (64 - 141)         | 0.28 | (0-40)        | SW846 8260B |
| Carbon tetrachloride | 99                  | (56 - 155)         |      |               | SW846 8260B |
|                      | 97                  | (56 - 155)         | 1.8  | (0-40)        | SW846 8260B |
| 1,2-Dichloroethane   | 95                  | (69 - 145)         |      |               | SW846 8260B |
|                      | 94                  | (69 - 145)         | 0.59 | (0-40)        | SW846 8260B |
| Benzene              | 92                  | (69 - 142)         |      |               | SW846 8260B |
|                      | 93                  | (69 - 142)         | 0.81 | (0-40)        | SW846 8260B |
| Trichloroethene      | 94                  | (63 - 129)         |      |               | SW846 8260B |
|                      | 94                  | (63 - 129)         | 0.42 | (0-40)        | SW846 8260B |
| Tetrachloroethene    | 84                  | (50 - 131)         |      |               | SW846 8260B |
|                      | 89                  | (50 - 131)         | 5.9  | (0-40)        | SW846 8260B |
| Chlorobenzene        | 96                  | (77 - 120)         |      |               | SW846 8260B |
|                      | 100                 | (77 - 120)         | 3.9  | (0-40)        | SW846 8260B |

| SURROGATE             | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|-----------------------|---------------------|--------------------|
| Dibromofluoromethane  | 92                  | (75 - 127)         |
|                       | 90                  | (75 - 127)         |
| Toluene-d8            | 90                  | (79 - 117)         |
|                       | 96                  | (79 - 117)         |
| 4-Bromofluorobenzene  | 89                  | (60 - 119)         |
|                       | 92                  | (60 - 119)         |
| 1,2-Dichloroethane-d4 | 91                  | (71 - 133)         |
|                       | 91                  | (71 - 133)         |

### NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## General Chemistry

Lot-Sample #...: F0L070285

Matrix.....: SOLID

| PARAMETER          | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS                                            | RPD<br>LIMITS | METHOD      | PREPARATION-<br>ANALYSIS DATE | PREP<br>BATCH # |
|--------------------|---------------------|---------------------------------------------------------------|---------------|-------------|-------------------------------|-----------------|
| Reactive Cyanide   |                     | WO#:DQ7291AC-LCS/DQ7291AD-LCSD LCS Lot-Sample#: F0L110000-370 |               |             |                               |                 |
|                    | 0.0                 | (0.0- 0.0)                                                    |               | SW846 7.3.3 | 12/11/00                      | 0346370         |
|                    | 0.0                 | (0.0- 0.0)                                                    | 0.0 (0-0.0)   | SW846 7.3.3 | 12/11/00                      | 0346370         |
| Dilution Factor: 1 |                     |                                                               |               |             |                               |                 |
| Reactive Sulfide   |                     | WO#:DRL3H1AC-LCS/DRL3H1AD-LCSD LCS Lot-Sample#: F0L180000-493 |               |             |                               |                 |
|                    | 44 N                | (66 - 116)                                                    |               | SW846 7.3.4 | 12/15/00                      | 0353493         |
|                    | 44 N                | (66 - 116)                                                    | 0.0 (0-35)    | SW846 7.3.4 | 12/15/00                      | 0353493         |
| Dilution Factor: 1 |                     |                                                               |               |             |                               |                 |
| Total Cyanide      |                     | WO#:DRL2F1AC-LCS/DRL2F1AD-LCSD LCS Lot-Sample#: F0L180000-482 |               |             |                               |                 |
|                    | 97                  | (90 - 110)                                                    |               | SW846 9010A | 12/18/00                      | 0353482         |
|                    | 97                  | (90 - 110)                                                    | 0.0 (0-35)    | SW846 9010A | 12/18/00                      | 0353482         |
| Dilution Factor: 1 |                     |                                                               |               |             |                               |                 |

### NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## TCLP Metals

Lot-Sample #...: F0L070285

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> | <u>RPD</u><br><u>LIMITS</u> | <u>METHOD</u> | <u>PREPARATION-</u><br><u>ANALYSIS DATE</u> | <u>PREP-</u><br><u>BATCH #</u> |
|------------------|-----------------------------------|----------------------------------|-----------------------------|---------------|---------------------------------------------|--------------------------------|
| Mercury          | 93                                | (80 - 120)                       |                             | SW846 7470A   | 12/14-12/15/00                              | 0349167                        |
|                  | 91                                | (80 - 120)                       | 1.5 (0-20)                  | SW846 7470A   | 12/14-12/15/00                              | 0349167                        |

Dilution Factor: 5

### NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.



# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC Semivolatiles

Client Lot #...: F0L070285      Work Order #...: DQ3NT1AC      Matrix.....: SOLID  
 LCS Lot-Sample#: F0L080000-176  
 Prep Date.....: 12/08/00      Analysis Date...: 12/11/00  
 Prep Batch #...: 0343176      Analysis Time...: 07:39  
 Dilution Factor: 1

| <u>PARAMETER</u> | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> | <u>METHOD</u> |
|------------------|-----------------------------|----------------------------|---------------|
| Aroclor 1016     | 119                         | (74 - 127)                 | SW846 8082    |
| Aroclor 1260     | 116                         | (74 - 129)                 | SW846 8082    |

| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|----------------------|-----------------------------|----------------------------|
| Tetrachloro-m-xylene | 121                         | (62 - 162)                 |
| Decachlorobiphenyl   | 119                         | (53 - 145)                 |

### NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## General Chemistry

Client Lot #...: FOL070285

Matrix.....: SOLID

| <u>PARAMETER</u> | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u>                   | <u>METHOD</u>                                 | <u>PREPARATION-<br/>ANALYSIS DATE</u> | <u>PREP<br/>BATCH #</u> |
|------------------|-----------------------------|----------------------------------------------|-----------------------------------------------|---------------------------------------|-------------------------|
| Flashpoint       | 101                         | Work Order #: DRGX11AA<br>(96 - 104)         | LCS Lot-Sample#: FOL150000-253<br>SW846 1010  | 12/15-12/18/00                        | 0350253                 |
|                  |                             | Dilution Factor: 1<br>Analysis Time... 00:00 |                                               |                                       |                         |
| TOX              | 86                          | Work Order #: DR08M1AC<br>(80 - 120)         | LCS Lot-Sample#: FOL260000-184<br>SW846 9020A | 12/21/00                              | 0361184                 |
|                  |                             | Dilution Factor: 1<br>Analysis Time... 00:00 |                                               |                                       |                         |

### NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

***Appendix E***  
PARCC Parameter Analyses

**PSC Metals**  
**Summary of Data Quality Assessment**

August 2005

1. **Precision.** Did field and laboratory duplicate samples analyzed in the laboratory meet SAG Table 3-1 DQOs for precision?

The data have been evaluated and/or validated by the SAIC Data Management Group. Generally, the Relative Percent Difference (RPD) and/or Normalized Absolute Difference (NAD) were within the control limits for the field duplicate samples. Tables 1 and 2 demonstrate the exceptions. Laboratory duplicates are analyzed at the time of data package review. The sample data was within the control limits for 100.0 % of the data. The data can be used for their intended purpose.

2. **Accuracy.** Did laboratory control samples and/or tracer samples analyzed in the laboratory meet SAG Table 3-1 DQOs for accuracy?

The data have been evaluated and/or validated by the SAIC Data Management Group. Generally, the Relative Percent Difference (RPD) and/or Normalized Absolute Difference (NAD) were within the control limits for the field duplicate samples. Tables 3 and 4 demonstrate the exceptions. The laboratory control sample and/or the tracer was within the control limits for 100.0 % of the data. The data can be used for their intended purpose.

3. **Representativeness.** Were the analytical procedures specified in the SAG and work description followed? Were holding times exceeded?

The data have been evaluated and/or validated by the SAIC Data Management Group. The proper analytical methods were utilized in the analyses of these samples. Holding times were met for 100.0% of the analyses. The data can be used for their intended purpose.

4. **Completeness.** Are results usable for at least 90% of laboratory samples?

The percent completeness for this sampling effort is 99.9 %.

5. **Comparability.** Are data sets sufficiently comparable to allow reasonable conclusions to be drawn?

Standardized and consistent procedures used to obtain analytical data are expected to provide comparable results. Current and historical information are sufficiently comparable to allow a reasonable determination of the nature and extent of the radiological contamination.

**Table 1: Duplicate Precision for Alpha Spec. Analyses for PSC Metals**

| SampleName          | Thorium-228 |      | Thorium-230 |     | Thorium-232 |     |
|---------------------|-------------|------|-------------|-----|-------------|-----|
|                     | RPD         | NAD  | RPD         | NAD | RPD         | NAD |
| SLD70115/SLD70115-1 | N/A         | 0.94 | NC          | NC  | NC          | NC  |
| SLD70131/SLD70131-1 | N/A         | 0.61 | 26.1%       | N/A | NC          | NC  |
| SLD72146/SLD72146-1 | N/A         | 0.57 | 16.3%       | N/A | NC          | NC  |
| SLD72165/SLD72165-1 | N/A         | 0.38 | 14.4%       | N/A | NC          | NC  |
| SLD72173/SLD72173-1 | N/A         | 1.68 | NC          | NC  | NC          | NC  |
| SLD72184/SLD72184-1 | N/A         | 0.72 | 4.6%        | N/A | NC          | NC  |
| SLD72435/SLD72435-1 | N/A         | 1.33 | NC          | NC  | NC          | NC  |
| SLD72445/SLD72445-1 | N/A         | 0.30 | 14.1%       | N/A | NC          | NC  |
| SLD72463/SLD72463-1 | N/A         | 0.78 | NC          | NC  | NC          | NC  |
| SLD72467/SLD72467-1 | NC          | NC   | NC          | NC  | NC          | NC  |
| SLD72482/SLD72482-1 | NC          | NC   | NC          | NC  | NC          | NC  |
| SLD72504/SLD72504-1 | N/A         | 0.10 | 3.1%        | N/A | NC          | NC  |
| SLD72529/SLD72529-1 | N/A         | 0.52 | NC          | NC  | NC          | NC  |
| SLD72836/SLD72836-1 | N/A         | 0.05 | NC          | NC  | NC          | NC  |
| SLD72947/SLD72947-1 | N/A         | 0.02 | 5.0%        | N/A | NC          | NC  |
| SLD72967/SLD72967-1 | N/A         | 0.29 | 33.9%       | N/A | NC          | NC  |
| SLD72987/SLD72987-1 | NC          | NC   | NC          | NC  | NC          | NC  |
| SLD73007/SLD73007-1 | 23.8%       | N/A  | 8.1%        | N/A | NC          | NC  |
| SLD87327/SLD87327-1 | N/A         | 0.74 | 17.1%       | N/A | NC          | NC  |

N/A – Not Applicable.

NC – Not Calculable when one or both samples non-detect.

Shaded and Boldface – RPD / NAD pair exceeds the control limit.

**Table 2: Duplicate Precision for Gamma Spec. Analyses for PSC Metals**

|                     | Actinium-227 |      | Americium-241 |     | Cesium-137 |      | Potassium-40 |      | Protactinium-231 |     | Radium-226 |     | Radium-228 |     | Uranium-235 |      | Uranium-238 |     |
|---------------------|--------------|------|---------------|-----|------------|------|--------------|------|------------------|-----|------------|-----|------------|-----|-------------|------|-------------|-----|
| SampleName          | RPD          | NAD  | RPD           | NAD | RPD        | NAD  | RPD          | NAD  | RPD              | NAD | RPD        | NAD | RPD        | NAD | RPD         | NAD  | RPD         | NAD |
| SLD70115/SLD70115-1 | NC           | NC   | NC            | NC  | N/A        | 0.47 | 7.1%         | N/A  | NC               | NC  | 6.1%       | N/A | NC         | NC  | N/A         | 0.15 | NC          | NC  |
| SLD70131/SLD70131-1 | NC           | NC   | NC            | NC  | NC         | NC   | 8.2%         | N/A  | NC               | NC  | NC         | NC  | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD72146/SLD72146-1 | NC           | NC   | NC            | NC  | N/A        | 0.17 | 12.7%        | N/A  | NC               | NC  | 13.1%      | N/A | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD72165/SLD72165-1 | NC           | NC   | NC            | NC  | NC         | NC   | 25.9%        | N/A  | NC               | NC  | 11.1%      | N/A | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD72173/SLD72173-1 | NC           | NC   | NC            | NC  | NC         | NC   | 10.9%        | N/A  | NC               | NC  | 0.7%       | N/A | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD72184/SLD72184-1 | NC           | NC   | NC            | NC  | NC         | NC   | 28.8%        | N/A  | NC               | NC  | 3.8%       | N/A | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD72435/SLD72435-1 | NC           | NC   | NC            | NC  | NC         | NC   | <b>35.3%</b> | N/A  | NC               | NC  | NC         | NC  | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD72445/SLD72445-1 | NC           | NC   | NC            | NC  | NC         | NC   | 1.9%         | N/A  | NC               | NC  | 5.6%       | N/A | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD72463/SLD72463-1 | NC           | NC   | NC            | NC  | NC         | NC   | 19.9%        | N/A  | NC               | NC  | NC         | NC  | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD72467/SLD72467-1 | NC           | NC   | NC            | NC  | NC         | NC   | N/A          | 0.24 | NC               | NC  | NC         | NC  | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD72482/SLD72482-1 | NC           | NC   | NC            | NC  | NC         | NC   | N/A          | 1.56 | NC               | NC  | NC         | NC  | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD72504/SLD72504-1 | NC           | NC   | NC            | NC  | N/A        | 1.31 | 16.0%        | N/A  | NC               | NC  | 4.5%       | N/A | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD72529/SLD72529-1 | NC           | NC   | NC            | NC  | N/A        | 0.74 | 6.7%         | N/A  | NC               | NC  | NC         | NC  | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD72836/SLD72836-1 | NC           | NC   | NC            | NC  | NC         | NC   | 0.0%         | N/A  | NC               | NC  | NC         | NC  | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD72947/SLD72947-1 | N/A          | 0.59 | NC            | NC  | N/A        | 0.35 | 3.6%         | N/A  | NC               | NC  | NC         | NC  | NC         | NC  | N/A         | 0.09 | NC          | NC  |
| SLD72967/SLD72967-1 | NC           | NC   | NC            | NC  | NC         | NC   | 0.9%         | N/A  | NC               | NC  | 0.5%       | N/A | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD72987/SLD72987-1 | NC           | NC   | NC            | NC  | NC         | NC   | NC           | NC   | NC               | NC  | NC         | NC  | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD73007/SLD73007-1 | NC           | NC   | NC            | NC  | N/A        | 0.15 | 17.1%        | N/A  | NC               | NC  | 12.0%      | N/A | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD87327/SLD87327-1 | NC           | NC   | NC            | NC  | NC         | NC   | 3.9%         | N/A  | NC               | NC  | 11.0%      | N/A | NC         | NC  | NC          | NC   | NC          | NC  |

N/A – Not Applicable.

NC – Not Calculable.

Shaded and Boldface – RPD / NAD pair exceeds the control limit.

**Table 3: Split Precision for Alpha Spec. Analyses for PSC Metals**

| SampleName          | Thorium-228  |            | Thorium-230   |            | Thorium-232 |     |
|---------------------|--------------|------------|---------------|------------|-------------|-----|
|                     | RPD          | NAD        | RPD           | NAD        | RPD         | NAD |
| SLD70115/SLD70115-2 | N/A          | 0.24       | <b>140.3%</b> | <b>N/A</b> | NC          | NC  |
| SLD70131/SLD70131-2 | N/A          | 0.86       | NC            | NC         | NC          | NC  |
| SLD72146/SLD72146-2 | N/A          | 0.03       | 21.6%         | N/A        | NC          | NC  |
| SLD72165/SLD72165-2 | N/A          | 1.31       | 6.2%          | N/A        | NC          | NC  |
| SLD72173/SLD72173-2 | <b>93.6%</b> | <b>N/A</b> | NC            | NC         | NC          | NC  |
| SLD72184/SLD72184-2 | N/A          | 0.31       | 20.6%         | N/A        | NC          | NC  |
| SLD72435/SLD72435-2 | N/A          | 0.02       | NC            | NC         | NC          | NC  |
| SLD72445/SLD72445-2 | N/A          | 0.23       | <b>30.2%</b>  | <b>N/A</b> | NC          | NC  |
| SLD72463/SLD72463-2 | N/A          | 0.25       | NC            | NC         | NC          | NC  |
| SLD72467/SLD72467-2 | NC           | NC         | NC            | NC         | NC          | NC  |
| SLD72482/SLD72482-2 | NC           | NC         | NC            | NC         | NC          | NC  |
| SLD72504/SLD72504-2 | N/A          | 0.65       | NC            | NC         | NC          | NC  |
| SLD72529/SLD72529-2 | N/A          | 0.65       | NC            | NC         | NC          | NC  |
| SLD72836/SLD72836-2 | N/A          | 0.09       | NC            | NC         | NC          | NC  |
| SLD72947/SLD72947-2 | N/A          | 0.27       | <b>72.4%</b>  | <b>N/A</b> | NC          | NC  |
| SLD72967/SLD72967-2 | N/A          | 0.30       | 23.3%         | N/A        | NC          | NC  |
| SLD72987/SLD72987-2 | NC           | NC         | NC            | NC         | NC          | NC  |
| SLD73007/SLD73007-2 | N/A          | 1.01       | <b>30.2%</b>  | <b>N/A</b> | NC          | NC  |

N/A – Not Applicable.

NC – Not Calculable when one or both samples non-detect.

Shaded and Boldface – RPD / NAD pair exceeds the control limit.

**Table 4: Split Precision for Gamma Spec. Analyses for PSC Metals**

| SampleName          | Actinium-227 |     | Americium-241 |     | Cesium-137 |      | Potassium-40 |      | Protactinium-231 |     | Radium-226   |     | Radium-228 |     | Uranium-235 |      | Uranium-238 |     |
|---------------------|--------------|-----|---------------|-----|------------|------|--------------|------|------------------|-----|--------------|-----|------------|-----|-------------|------|-------------|-----|
|                     | RPD          | NAD | RPD           | NAD | RPD        | NAD  | RPD          | NAD  | RPD              | NAD | RPD          | NAD | RPD        | NAD | RPD         | NAD  | RPD         | NAD |
| SLD70115/SLD70115-2 | NC           | NC  | NC            | NC  | NC         | NC   | NC           | NC   | NC               | NC  | 8.3%         | N/A | NC         | NC  | N/A         | 0.10 | NC          | NC  |
| SLD70131/SLD70131-2 | NC           | NC  | NC            | NC  | NC         | NC   | 21.9%        | N/A  | NC               | NC  | NC           | NC  | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD72146/SLD72146-2 | NC           | NC  | NC            | NC  | NC         | NC   | 2.2%         | N/A  | NC               | NC  | 25.6%        | N/A | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD72165/SLD72165-2 | NC           | NC  | NC            | NC  | NC         | NC   | 4.7%         | N/A  | NC               | NC  | 9.6%         | N/A | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD72173/SLD72173-2 | NC           | NC  | NC            | NC  | NC         | NC   | 23.8%        | N/A  | NC               | NC  | NC           | NC  | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD72184/SLD72184-2 | NC           | NC  | NC            | NC  | NC         | NC   | 10.5%        | N/A  | NC               | NC  | 3.5%         | N/A | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD72426/SLD72426-2 | NC           | NC  | NC            | NC  | NC         | NC   | N/A          | 0.76 | NC               | NC  | NC           | NC  | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD72435/SLD72435-2 | NC           | NC  | NC            | NC  | NC         | NC   | <b>45.8%</b> | N/A  | NC               | NC  | NC           | NC  | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD72445/SLD72445-2 | NC           | NC  | NC            | NC  | NC         | NC   | <b>40.9%</b> | N/A  | NC               | NC  | 26.2%        | N/A | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD72463/SLD72463-2 | NC           | NC  | NC            | NC  | NC         | NC   | 15.3%        | N/A  | NC               | NC  | NC           | NC  | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD72467/SLD72467-2 | NC           | NC  | NC            | NC  | NC         | NC   | NC           | NC   | NC               | NC  | NC           | NC  | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD72482/SLD72482-2 | NC           | NC  | NC            | NC  | NC         | NC   | N/A          | 1.72 | NC               | NC  | NC           | NC  | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD72504/SLD72504-2 | NC           | NC  | NC            | NC  | NC         | NC   | <b>39.5%</b> | N/A  | NC               | NC  | <b>45.5%</b> | N/A | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD72529/SLD72529-2 | NC           | NC  | NC            | NC  | NC         | NC   | 8.2%         | N/A  | NC               | NC  | NC           | NC  | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD72836/SLD72836-2 | NC           | NC  | NC            | NC  | NC         | NC   | 1.6%         | N/A  | NC               | NC  | NC           | NC  | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD72947/SLD72947-2 | NC           | NC  | NC            | NC  | NC         | NC   | NC           | NC   | NC               | NC  | NC           | NC  | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD72967/SLD72967-2 | NC           | NC  | NC            | NC  | NC         | NC   | 15.1%        | N/A  | NC               | NC  | 3.1%         | N/A | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD72987/SLD72987-2 | NC           | NC  | NC            | NC  | NC         | NC   | NC           | NC   | NC               | NC  | NC           | NC  | NC         | NC  | NC          | NC   | NC          | NC  |
| SLD73007/SLD73007-2 | NC           | NC  | NC            | NC  | N/A        | 3.33 | N/A          | 3.36 | NC               | NC  | <b>48.9%</b> | N/A | NC         | NC  | NC          | NC   | NC          | NC  |

N/A – Not Applicable.

NC – Not Calculable when one or both samples non-detect.

Shaded and Boldface – RPD / NAD pair exceeds the control limit.



**AR-075**